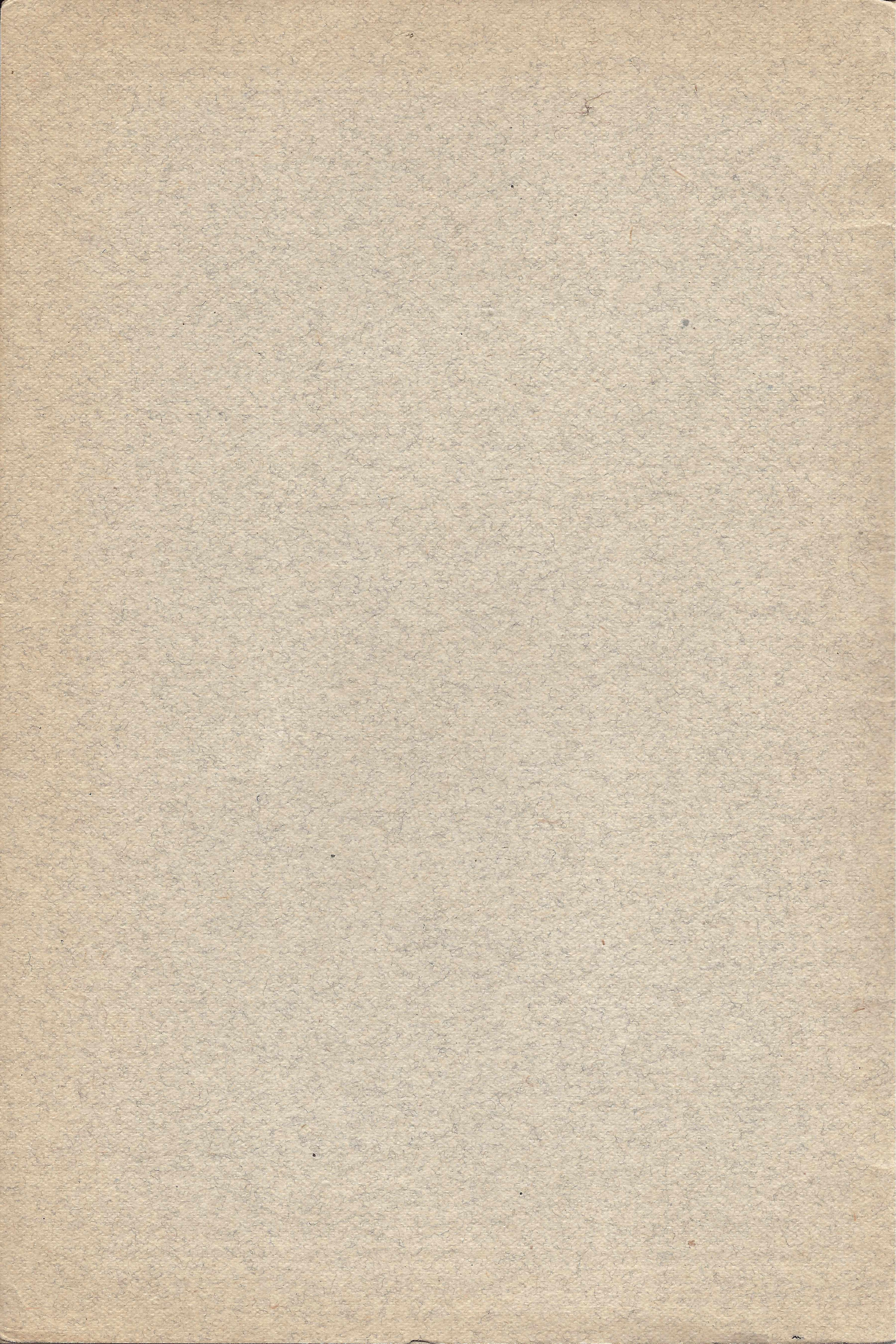


SCOURERS AND EDOLISHERS



Catalog No. 62





SCOURERS AND POLISHERS





1879

Posted September 15, 2019 Edited & Posted by: Brian D. Szafranski; Elma NY USA Please do not reprint or reproduce for commercial gain.

HUNTLEY MFG. COMPANY

SILVER CREEK, N.Y.

CABLE ADDRESS "HUNTLEY"

The World's Largest Manufacturers of High Class Grain and Seed Cleaning Machinery

CANADIAN PLANT
HUNTLEY MFG. CO., Ltd.
TILSONBURG, ONT.

GIES-CO., BUFFALO.

Please note: this may be a later, abbreviated catalog as pages 6 to 39 and 74 to 121 are missing from the original.



OUR CREED

EVERY machine turned out of our factory is built with the express purpose of perpetuating the reputation and distinction accorded our "Monitor" machines in the past.



SINCE 1879

PORTY years' experience building cleaning machinery. A rise by steady stages from the smallest to the World's largest manufacturers of high grade grain cleaning machinery. A corps of inventors and engineers whose mastery of the art of conceiving and perfecting grain cleaning and kindred machinery comes from an experience taken in a broader field than others have covered. Manufacturing facilities unsurpassed. Materials used the best obtainable. Only workmen employed who are skilled in this line, their efforts directed by experts having a ripe knowledge of all requirements. A determined and unremitting effort to continue to grow as we have grown. A realization of the fact that our future will depend largely upon two things—our treatment of and by the miller. We won't keep you longer—hurry on to the new things you will see in print for the first time—new "Monitors." We solicit a fair and impartial consideration of our machinery—we ask for nothing more—except, of course, your order.

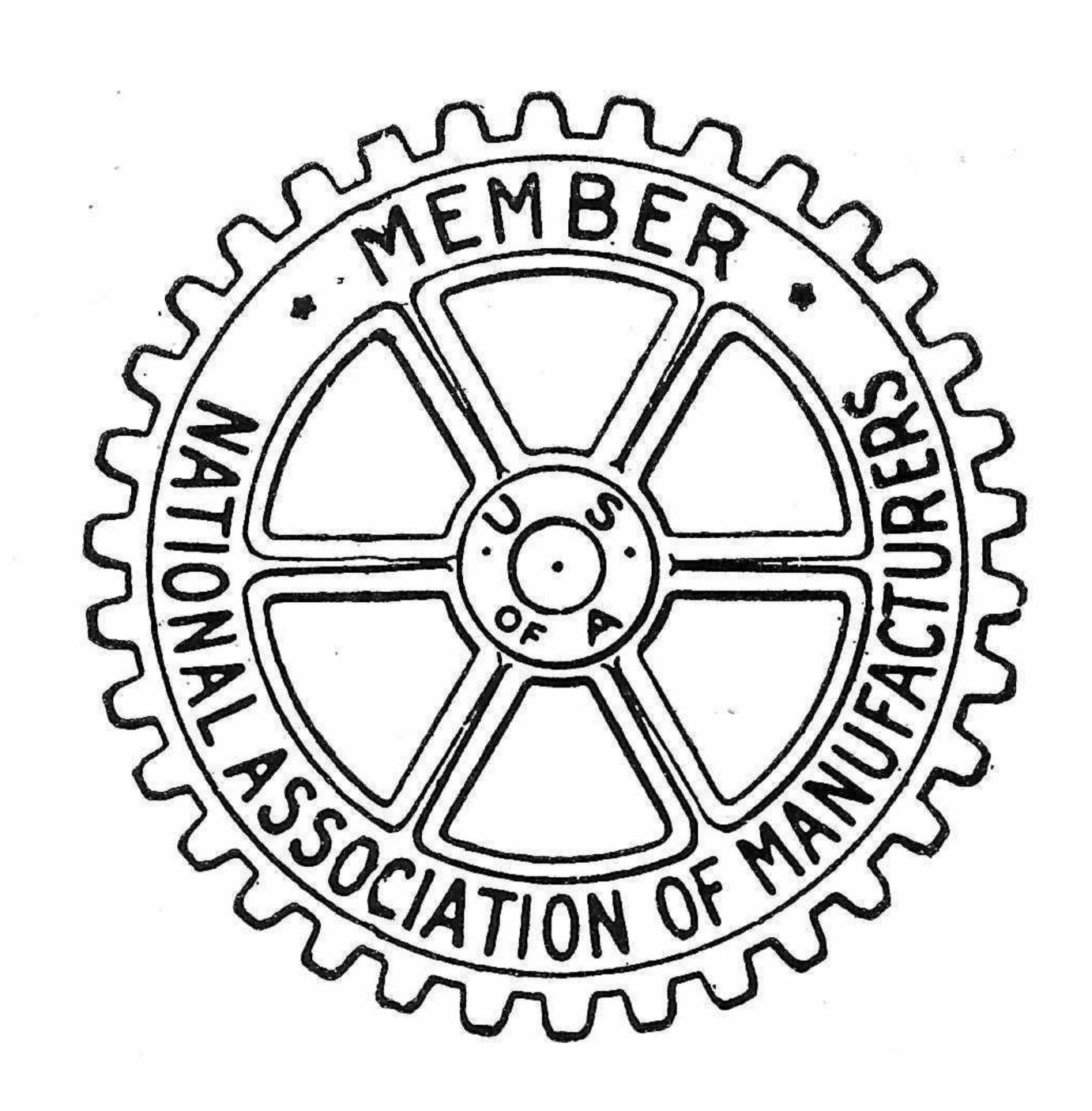
We have established a branch factory at Tilsonburg, Ontario, for the better accommodation of our rapidly growing Canadian business. This factory is a model plant, perfectly arranged and equipped, and its product embraces the complete "Monitor" line, each machine being in design and construction, an exact duplicate of the similar machine as produced at our Silver Creek plant.

Our Canadian plant is under our direct supervision and control and its local Managers are all men of years of experience in the "Monitor" line.

Our full guarantee covers every machine produced at the Tilson-burg plant.

HUNTLEY MANUFACTURING CO.

PROPR'S "MONITOR" WORKS SILVER CREEK, N. Y., U. S. A.





For Each "Monitor" Machine Shown In This Catalog We Claim:

FOR the work intended; no other machine or device so efficient as a whole, so scientifically applicable, so economical...For the construction; decidedly the heaviest known, of best materials procurable and a quality of skilled workmanship unsurpassed...For general design and arrangement; pronounced simplicity and accessibility...For regulation; positive adjustments and perfect manipulation for every part...For durability; the maximum of service...For general operating and up-keep expense, figured in direct proportion to the quality and quantity of work handled; less power, care and attention—fewer renewals.



EVERY "Monitor" has this unqualified guarantee—construction, efficiency and service to equal every claim set forth above.



E will ship "Monitor" machines to responsible parties anywhere in the United States and Canada, under our guarantee that if the machine is set up and operated according to our directions, it will operate in accordance with our claims. If for any reason, a "Monitor" fails to do so, we are to be notified at once and accorded full opportunity to adjust it to a point where results do equal our claims.



AMERICA'S BEST BUILT CLEANERS



HEAVY-SERVICE CONSTRUCTION

S the World's foremost manufacturers of modern, high grade grain cleaning machinery, we find it unnecessary to make extravagant or highly colored claims concerning the construction of "Monitor" Machines. Regularly, for years, we have been building the heaviest constructed and most durable cleaning machines made in America. We refer you to any authority.

It is to be regretted that some manufacturers build their machines so much heavier in their catalogs than they do in their factory. The purchaser suffers from this difference. It is a matter of pride with us to have our "Monitors" as strongly and perfectly built as the buyer is led to expect by our literature. The following claims are realities—if you purchase a "Monitor" you will find every expectation realized.

MAIN SUPPORTING FRAMES—uncommonly heavy, of best quality, air-dried hardwood; machine mortised and tenoned—put together with heavy bolts having locked nuts and heavy washer under the head.

SHAKING SHOES—our inter-reinforced design, great strength and fine endurance qualities with lightest practicable weight.

ALL SHAFTS—largest practicable size for the service required (none heavier), high grade steel, accurately machine sized.

FANS—our exclusive, large diameter, low speed, one-piece design.

ALL LUMBER—is thoroughly seasoned, selected stock; screws and bolts used to the exclusion of nails wherever practicable.

ALL CASTINGS—are high grade, gray iron—our own manufacture, each carefully tested.

COLLARS AND PULLEYS—are machine faced—pulleys accurately balanced—collars are "safety" type.

CONSTRUCTION IN GENERAL—numberless niceties of painstaking detail throughout—a gratifying combination of high grade manufacture and expert knowledge of providing for every requirement.

FINISH—a pleasing feature of all "Monitors."

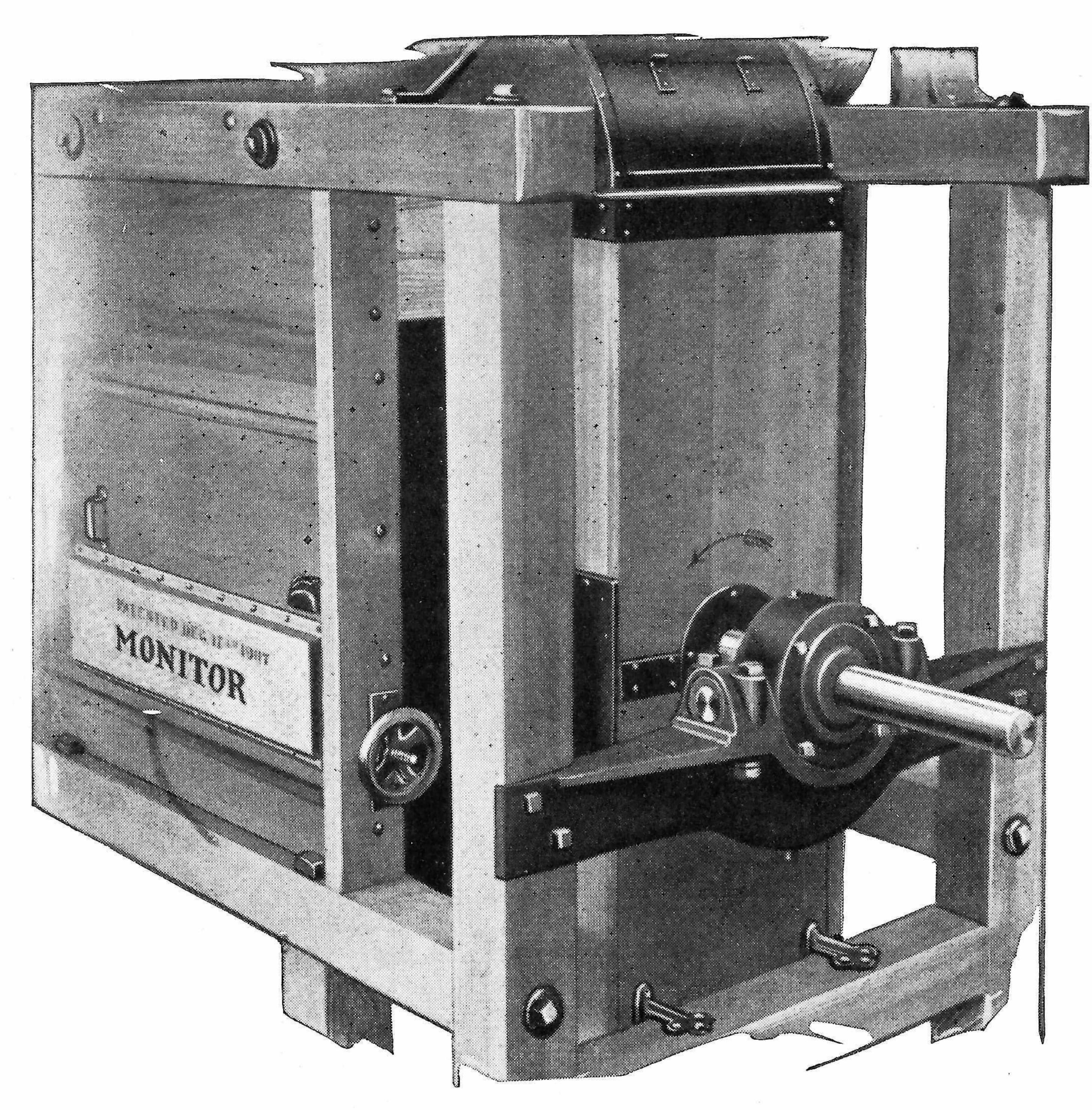
BEARINGS—see illustrations and descriptions, pages 46 and 47.

SPECIAL FEATURES—see "Equipment" under each cut.



SCOURERS AND POLISHERS

UR achievements in designing and building scourers and polishers are many and notable. They cover a period of forty-five years and are acclaimed by thousands of satisfied millers the World over. On the following pages we illustrate and describe some of their more important features—improvements that are clear cut "Monitor" inventions and possess true merit. We invite your thoughtful consideration of every claim we make, knowing that the more closely you investigate "Monitors" the more you will become satisfied of their fitness for a place in your mill. Let us consider them in a general way before you pass on to the detailed descriptions. They will deliver more scouring and polishing with less consumption of power than any machines manufactured—this has always been one of the "Monitor's" best features. They handle their work to perfection delivering the maximum of scouring and polishing without injury to or waste of the grain treated—regularly performing in this manner year after year under all conditions. "Monitors" have no weak points, nothing objectionable—each model we are showing has made good on the millers' floors—we are not listing a single experimental feature. Every part of every "Monitor" is perfect in a practical, test-proven sense—every part easily and consistently performs its duty over a long period of severe, continuous service—reliability is a strong "Monitor" feature. Durability is another pleasing factor—many of the machines we built forty-five years ago are still in service—upkeep small to the point of satisfaction expressed by the users. Back of a "Monitor," any "Monitor," all "Monitors" are these claims: their equal does not exist in point of efficiency, economy, positive regulation, high grade construction, fit and finish. Their service to be compared with any make of machine whatsoever—you to be the judge.



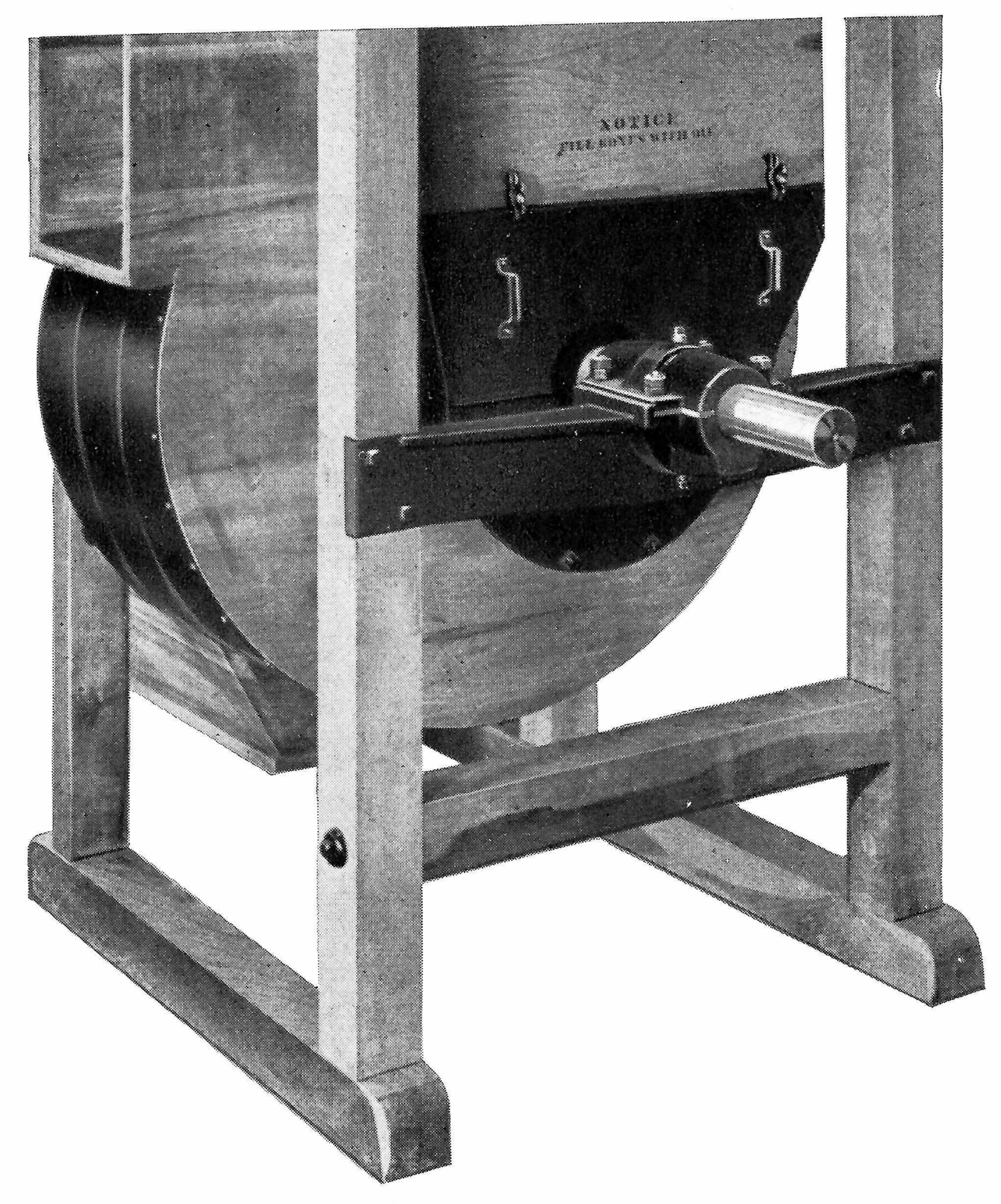
Illustrating the construction at discharge end—note the isolated (fire-proof) Bridgetree Bearing (Cut from photo of size No. 2 Smutter)



SMUTTERS—SCOURERS

HEAVY-SERVICE CONSTRUCTION

Proportioning of weight and strength—we invite any comparison you may choose to make. Main supporting frame is heavy construction, of best quality air-dried hardwood; machine mortised and tenoned, securely held by large bolts having locked nuts and heavy washer under the head. All other lumber is thoroughly seasoned selected stock; screws and bolts used to the exclusion of nails wherever practicable. All sheet metal used is of heavy gauge. All castings are high-grade, gray iron, our own manufacture, carefully tested. All moving parts are accurately balanced to insure operation at their rated speeds without perceptible vibration. Cylinder shafts are special test steel, accurately machine sized and—we lay stress on their diameter, listed in each table; no manufacturer uses heavier shafts, few as heavy. The numberless niceties of "Monitor" painstaking construction are the results of expertly skilled workmanship, high-grade materials and rigid inspection—in fit and finish they excel.



Fan End—showing metal construction of the tapered, self-cleaning suction leg to fan, and isolated (fire-proof) bearing

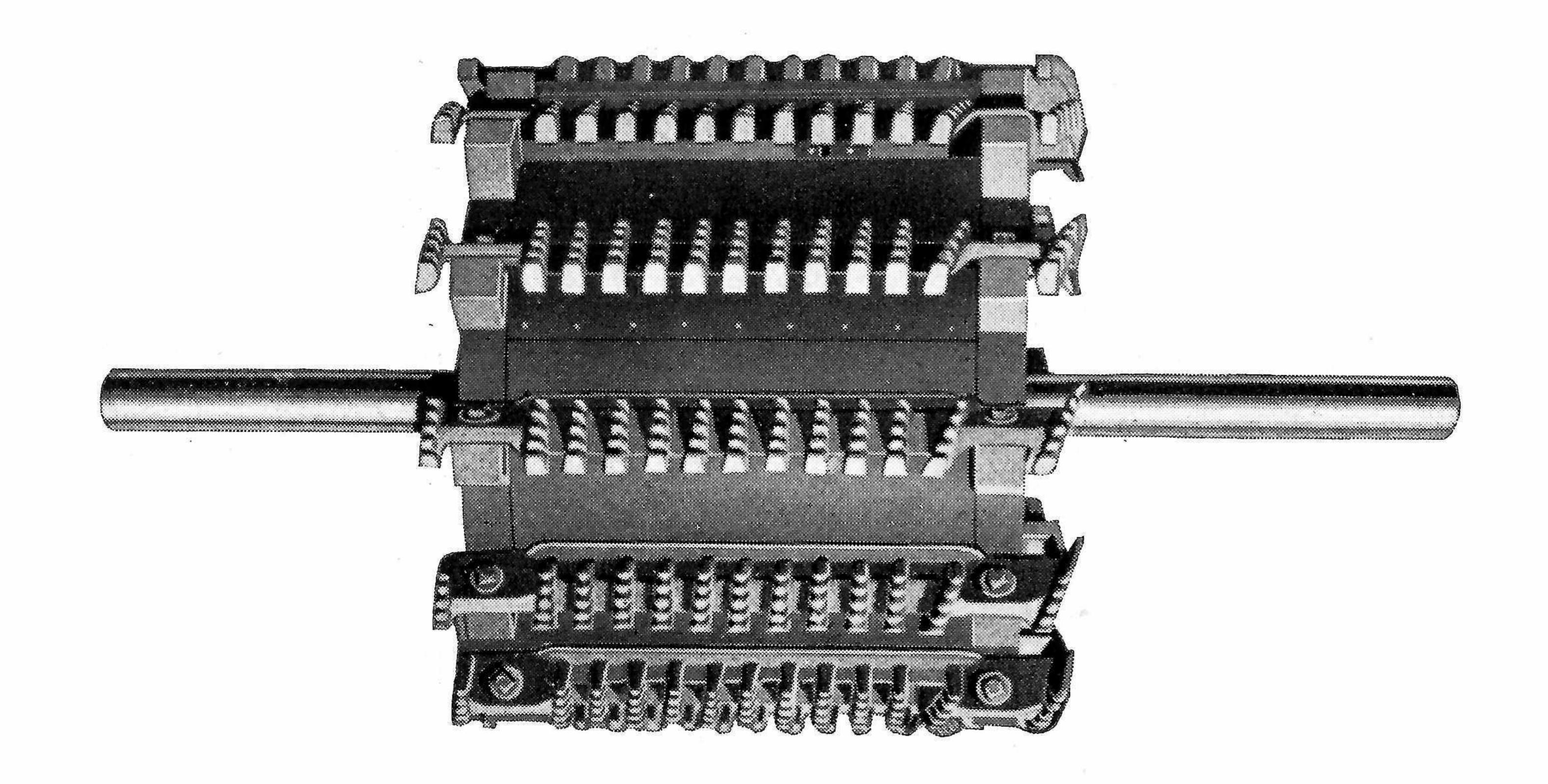
On all "Monitor" Smutters and Scourers—this tapered leg intake to fan eye; self-cleaning, no point where dust or chaff can accumulate, no risk from fire—removable door gives access to inside of leg and fan. Observe the isolated bridgetree location—approved by Fire Insurance Underwriters.



AIR SEPARATIONS—ASPIRATIONS

"Monitor" aspirations insure the thorough removal of all dust, chaff, impurities, and shrunken or immature grains of lesser weight than good grain that is treated—(*also, the light impurities, scourings and clippings released by the scouring or clipping operations are removed). On all "Monitors" an air separation is performed ahead of and after the work of the cylinder. Grain passing into cylinder is spread in an even stream of sufficient width to insure perfect air separations; air currents remove hulls, chaff, dust and shrunken grain, carrying these into settlings chamber where the stock is purified; dust and chaff going to fan discharge—the purified screenings delivering from chamber tip. From the cylinder grain discharges into wide suction leg and is again subjected to an air cleaning which removes all remaining light impurities. Conveniently located valves control both aspirations—the quick, uniformly correct response to every reasonable demand of the operator is a pleasing feature of all "Monitors."

^{*}See "Ventilation," page 43.



"MONITOR" SCOURING CYLINDER

ferable to other beaters for these reasons: Greater development of scouring action—intense friction is obtained without breakage or waste of wheat. The hundreds of tooth surfaces are chilled hardened by a process we have been successful with for years—they have unequalled wearing qualities. They never wear down to sharp edges and consequently do not injure the wheat. The beaters are adjustable and easily accessible by removing one section of scouring case. The most durable, close-scouring action cylinder in use. Each cylinder is carefully balanced to a static and running balance.

"MONITOR" VENTILATION

"Monitor" ventilation is a delight to every user. Our perfected construction insures full-length-of-cylinder ventilation—fresh air intake ample for every requirement; wheat leaves the "Monitor" in a clean, finished condition. A feature is the absence of any accumulations of scourings or dirt anywhere inside—a troublesome and dangerous condition existing with too many scouring machines. On the "Monitor" a heavy suction is applied to entire outside surface of the case—as rapidly as the dirt and scourings are loosened by the cylinder and pass through case openings, they are sucked into fan and discharged—a "Monitor" case is never fouled with scouring accumulations.

"MONITOR" SCOURING CASES

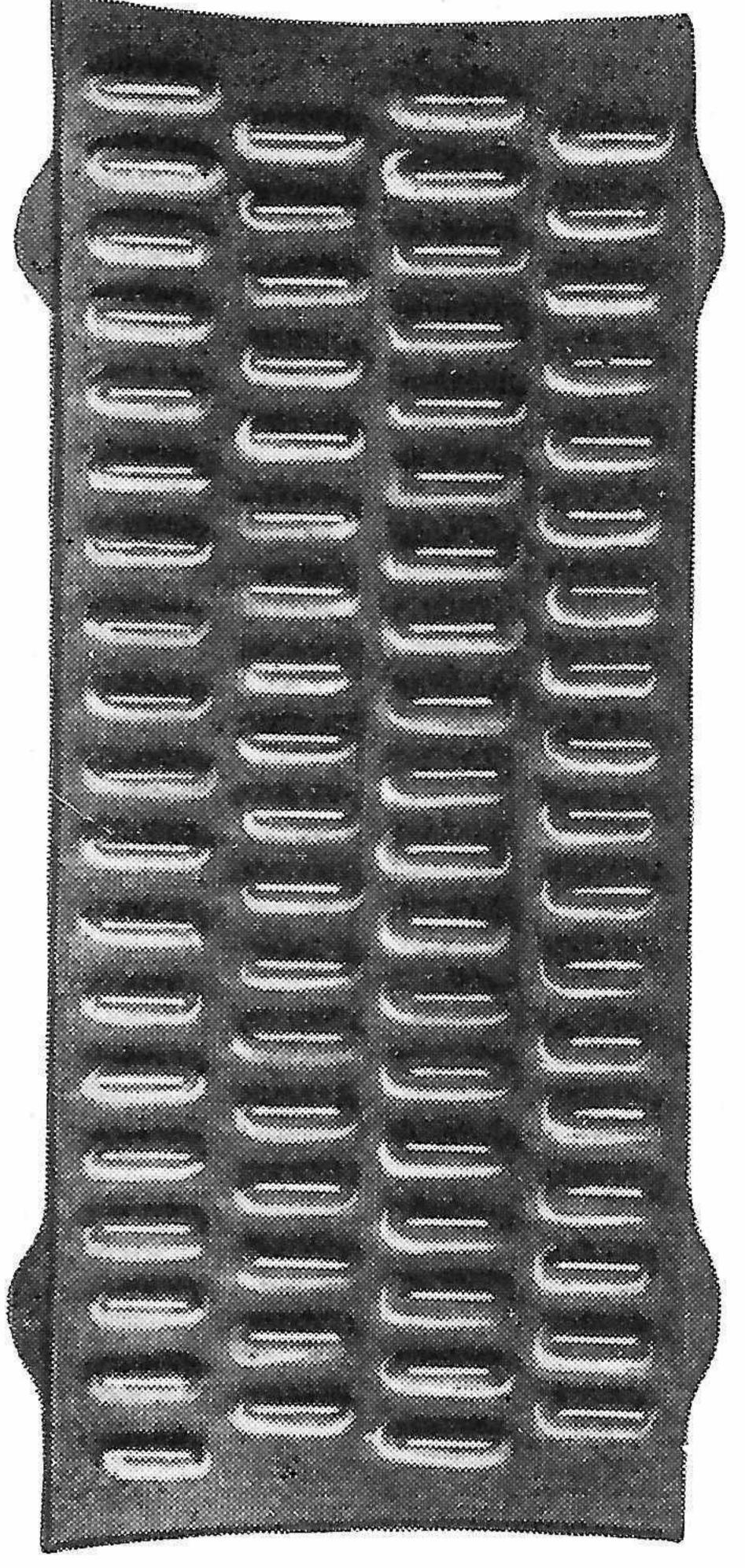
Your scouring will never be better than the service your scouring case renders, or to put it another way—without the right case right scouring is impossible. Do not overlook case importance. In the manufacture of over twenty thousand "Monitor" Scouring Cases, we have successfully provided for every scouring requirement. Scouring action, ventilation, fit, accessibility and wearing qualities—each important factors in case service, had exhaustive study and test before the several styles of case staves illustrated on opposite page were adopted as regular "Monitor" equipment. Their efficiency has been proven.

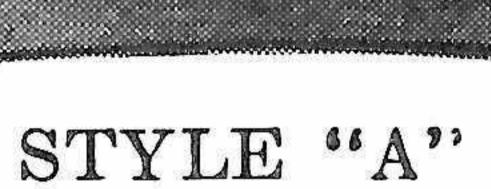
Only seven patterns are shown. We have others—a case for every requirement. Referring to illustrations you will notice different arrangement in spacing; all except "E" (wire) and "G" (Composition) have indented surface, varying in depth from the shallow pattern for mild work to the unusually deep indents suitable for severe scouring. Two of these have unparalleled ventilating efficiency—more openings to the square foot of surface than any chilled case in use.

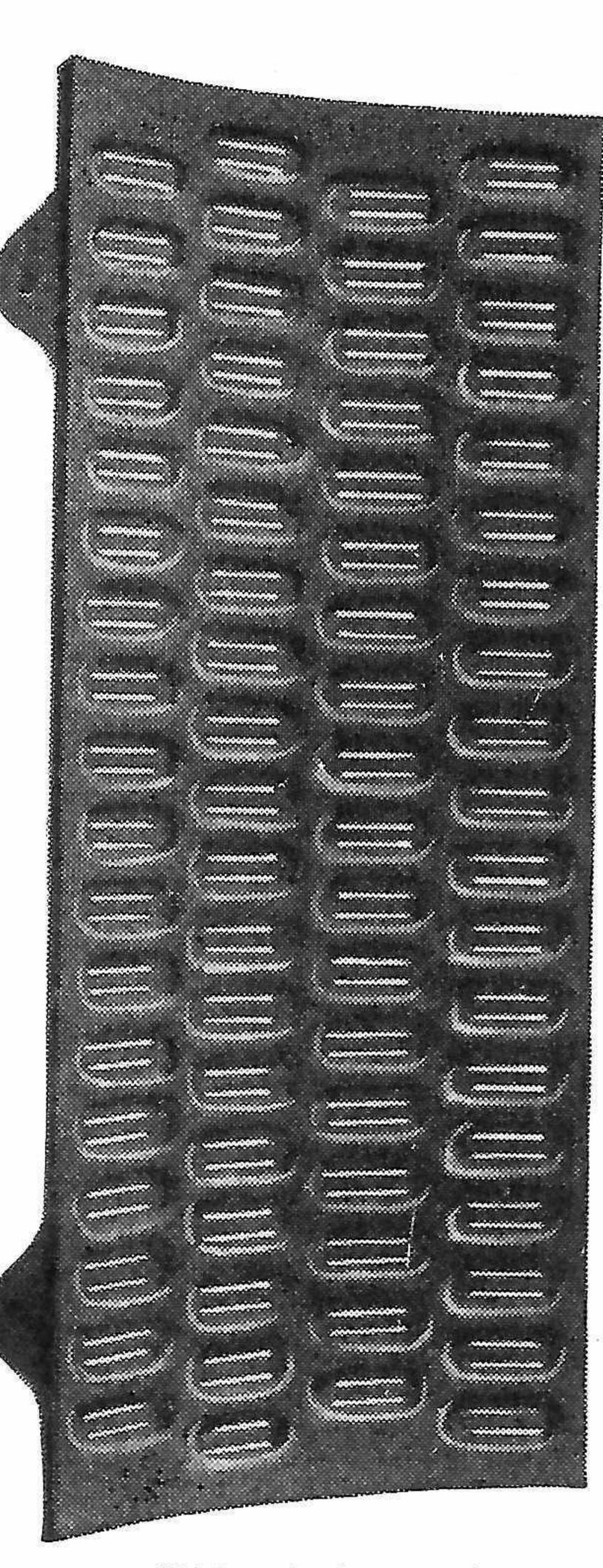
"Monitor" Case Staves "E" and "G" have extra heavy supporting frames—all others shown are solid castings of a special alloy of hard iron—entire wearing surface cast upon chills—"Monitor" Cases have unsurpassed wearing qualities. Cuts are from photos of No. 2 size staves showing two bolting lugs as used for this size,—three and four lugs on larger cases; these are drilled to templet and the edge of staves are accurately machined to insure close fit. All case patterns are standardized—one or more staves may be renewed with certainty of perfect fit, or a "combination" case is possible—two or more different styles of staves being used in one case—frequently a decided advantage. Staves are held together by extra heavy shackle bolts and case ends are supported at each end by heavy cast iron plates, machine sized. Finer fitting, heavier constructed and longer lived cases are things we pride ourselves on in case making.



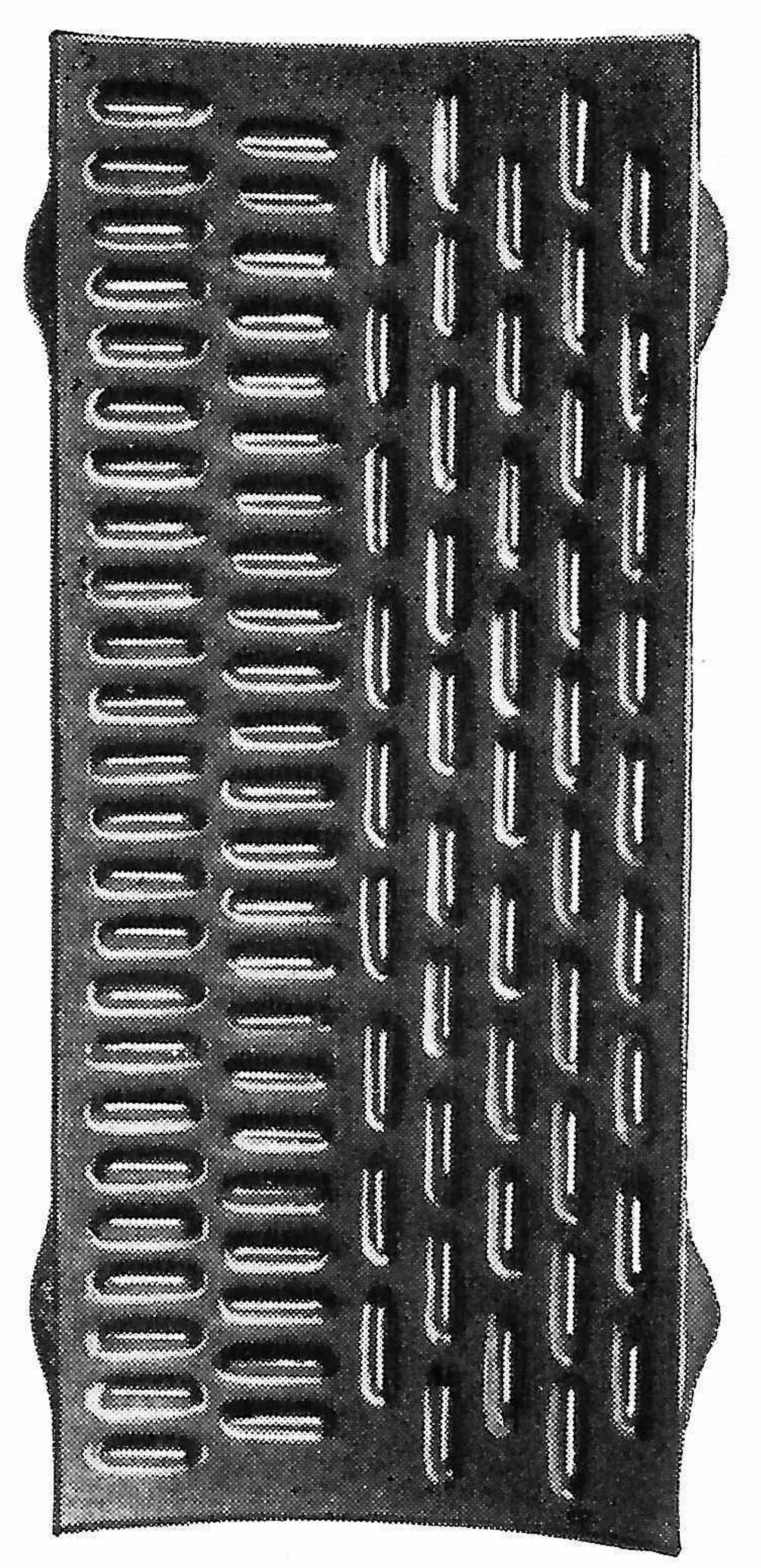
SCOURING CASES



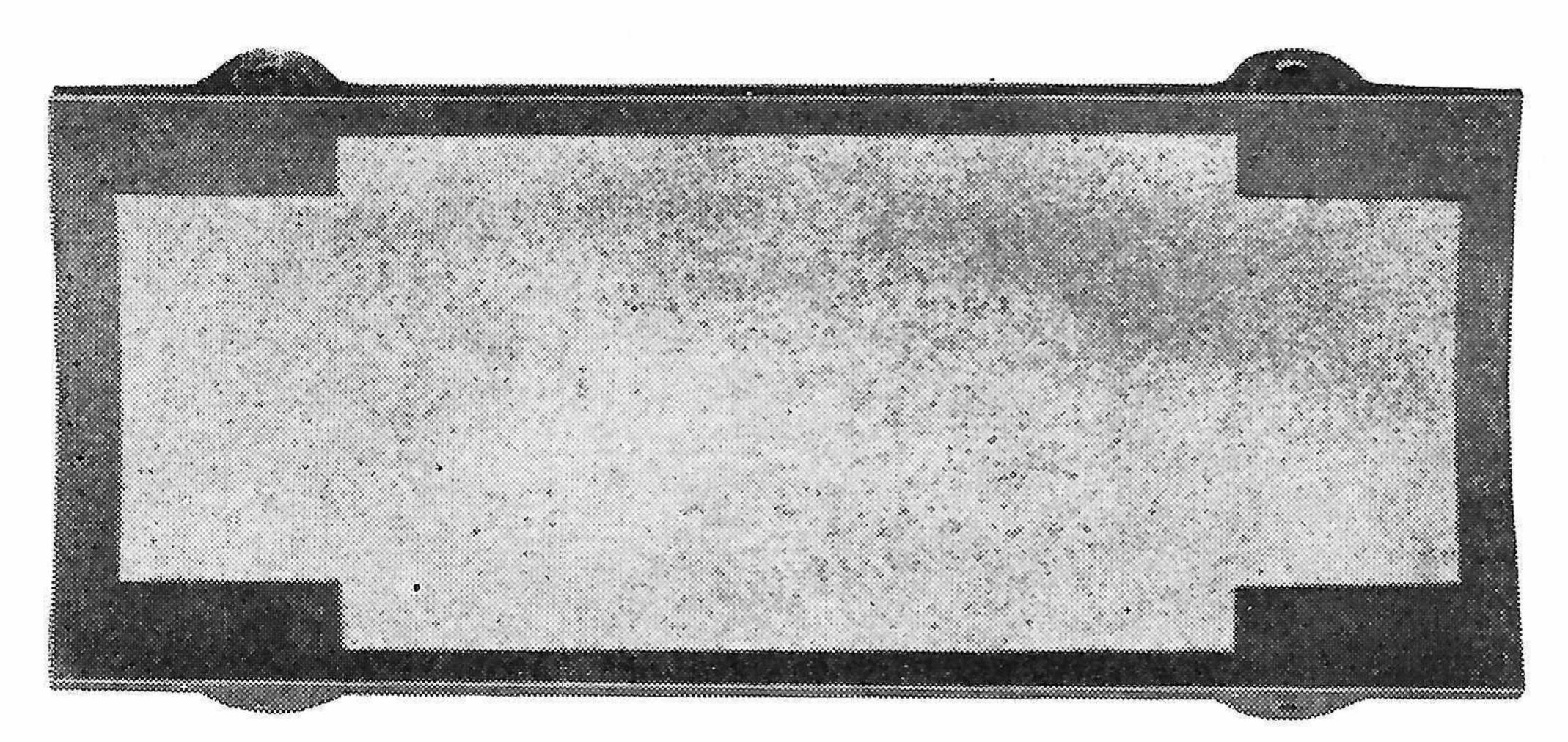




STYLE "B"

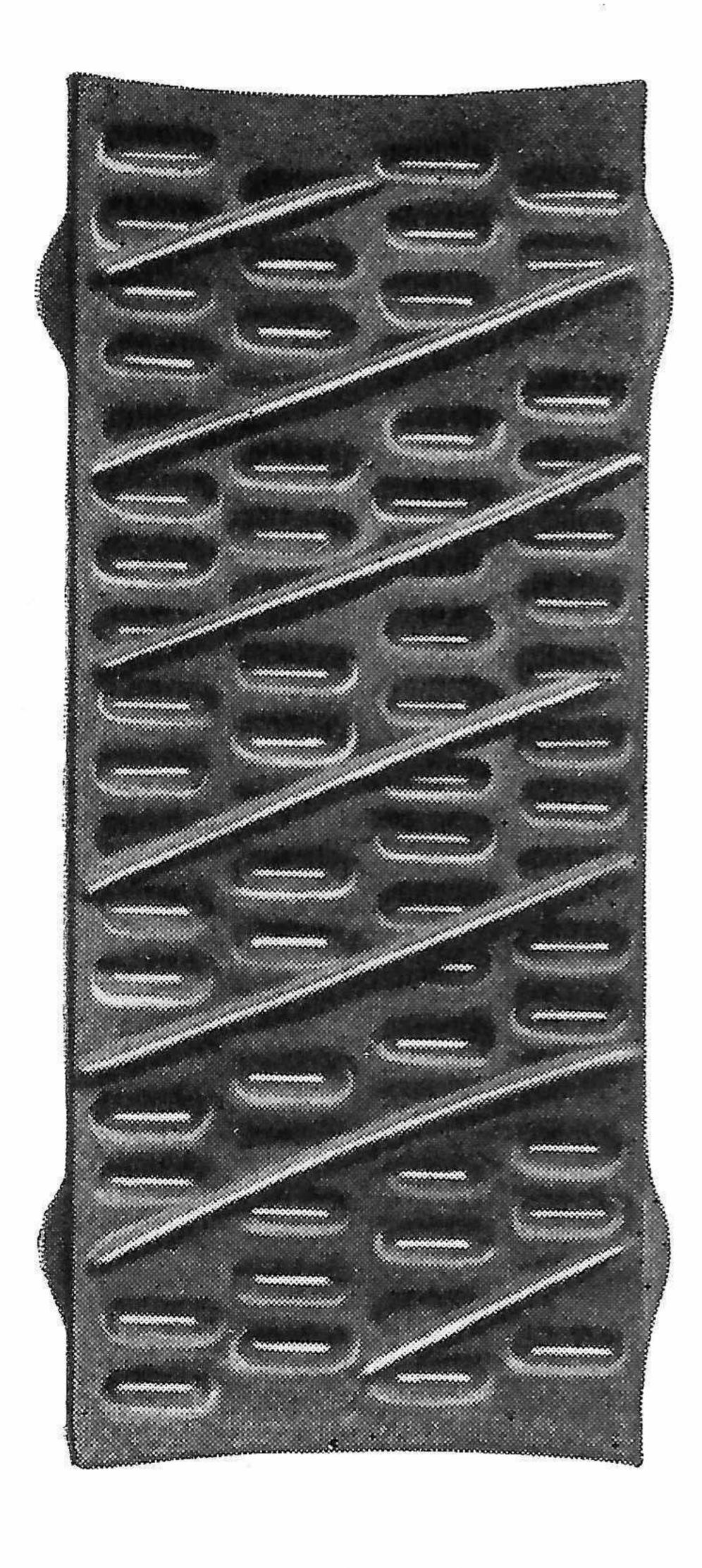


STYLE "C"

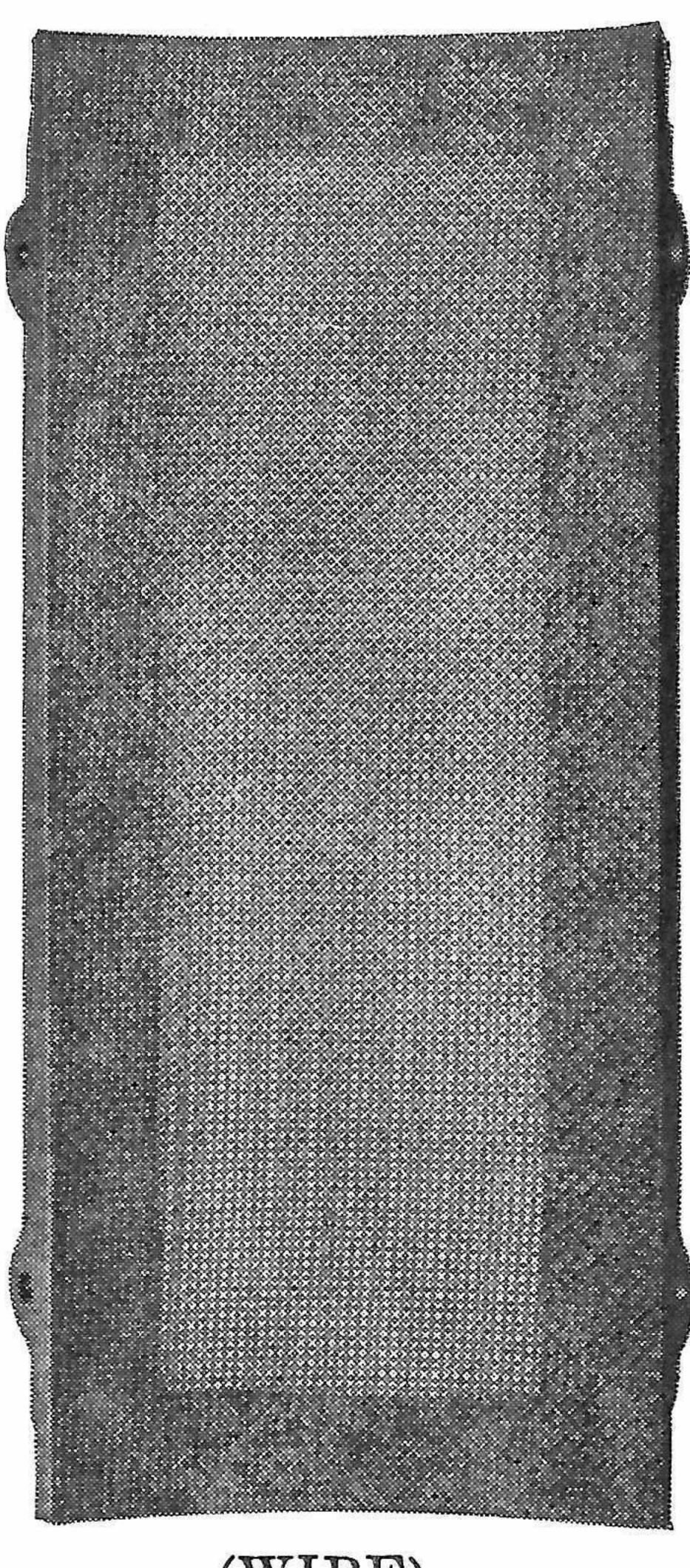


PATENT No. 1100190. STYLE "G"

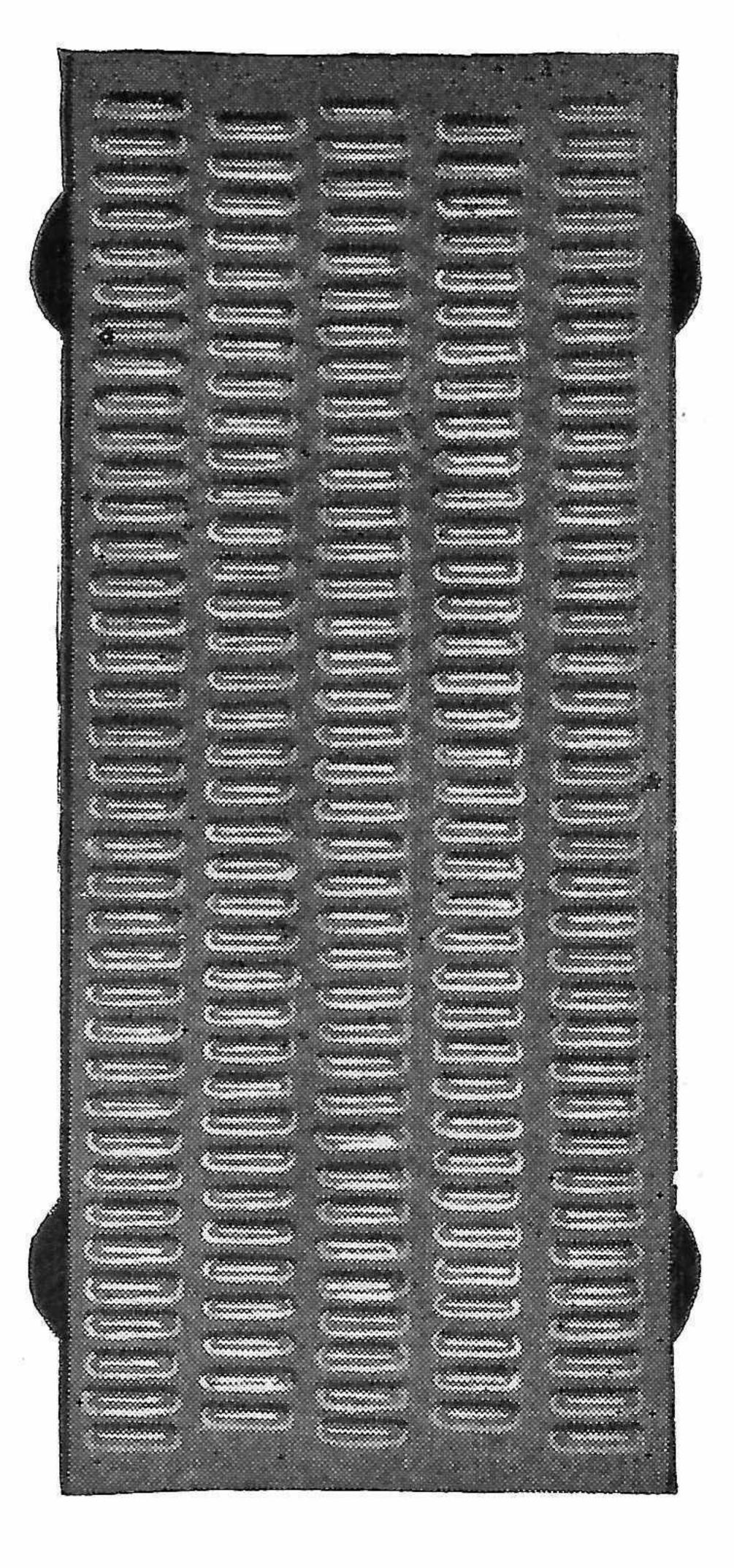
An achievement—enthusiastically pleased users report this Style "G" ("Composition") Stave as giving a vast improvement in scouring. Heavy construction, satisfying endurance and freedom from scratching or injury to wheat are features. A few of these staves (at extra charge) in combination with any of the other types will give surprising results.



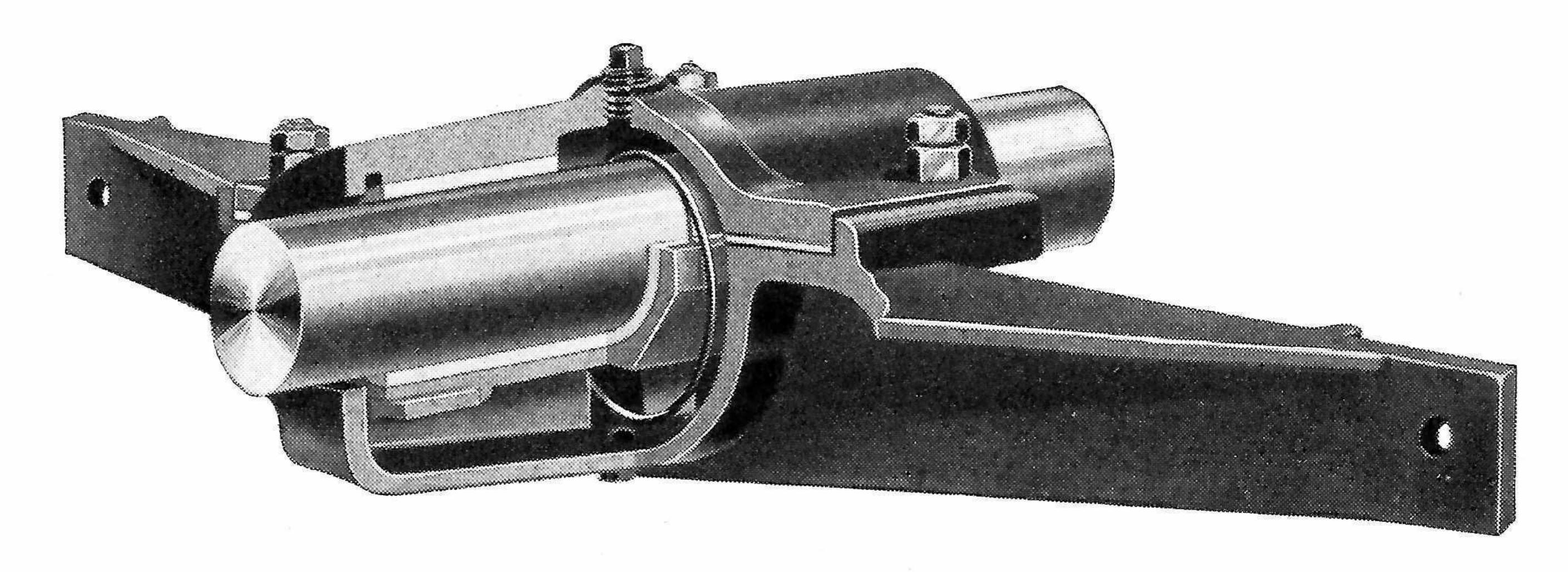
STYLE "D"



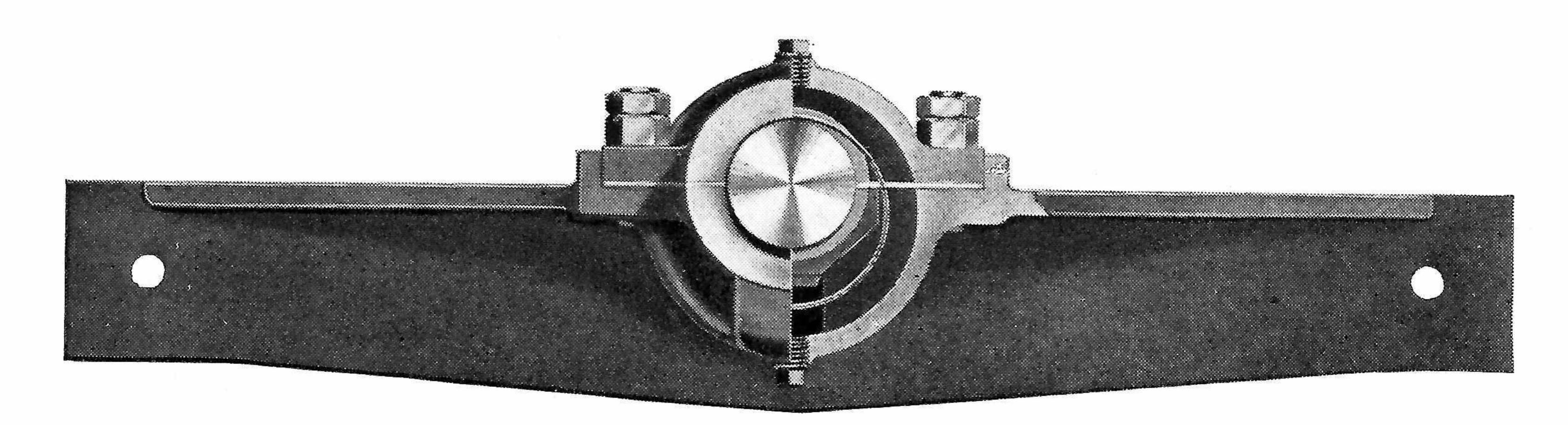
(WIRE) STYLE "E"



STYLE "F"



Longitudinal half-section view of a "Monitor" Ring Oiling Bridgetree. Note the deep reservoir for oil, also feed and drain plugs.



Half-section view through oil chamber of our Ring Oiling Bridgetree. Comparison with other bearings proves our "Monitor" Bearings superior in every detail.

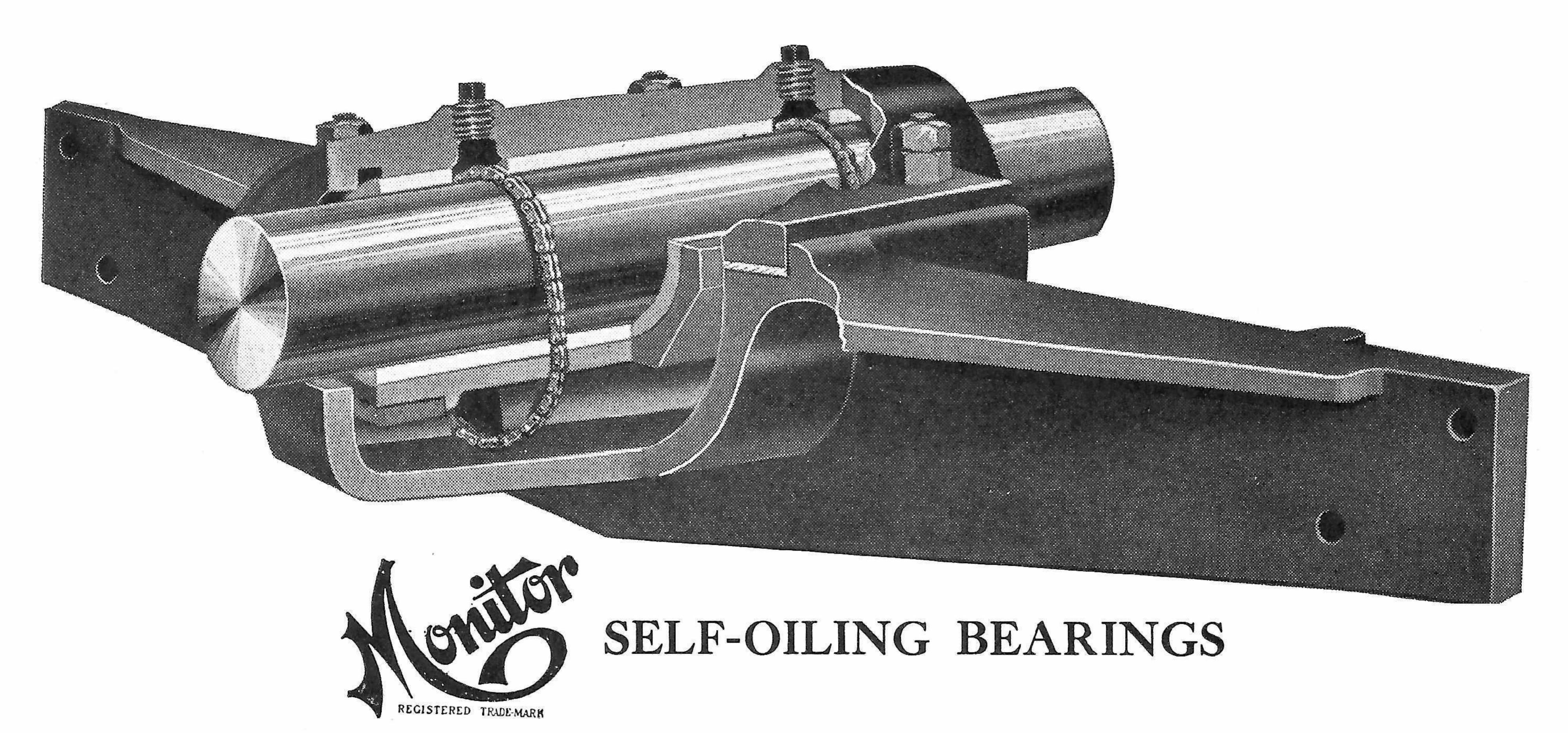
"MONITOR" SCOURER AND POLISHER SELF-OILING BEARINGS

HE two bridgetrees illustrated above are size No. 1 "Monitor" Scourer Bearings. Lubrication is by means of ring oilers traveling in deep reservoir—cut shows these details. If purchaser prefers we supply our flexible chain self-oiler as illustrated on opposite page. Having had several years perfect success with ring lubrication, we supply them unless otherwise specified—the same price for either.

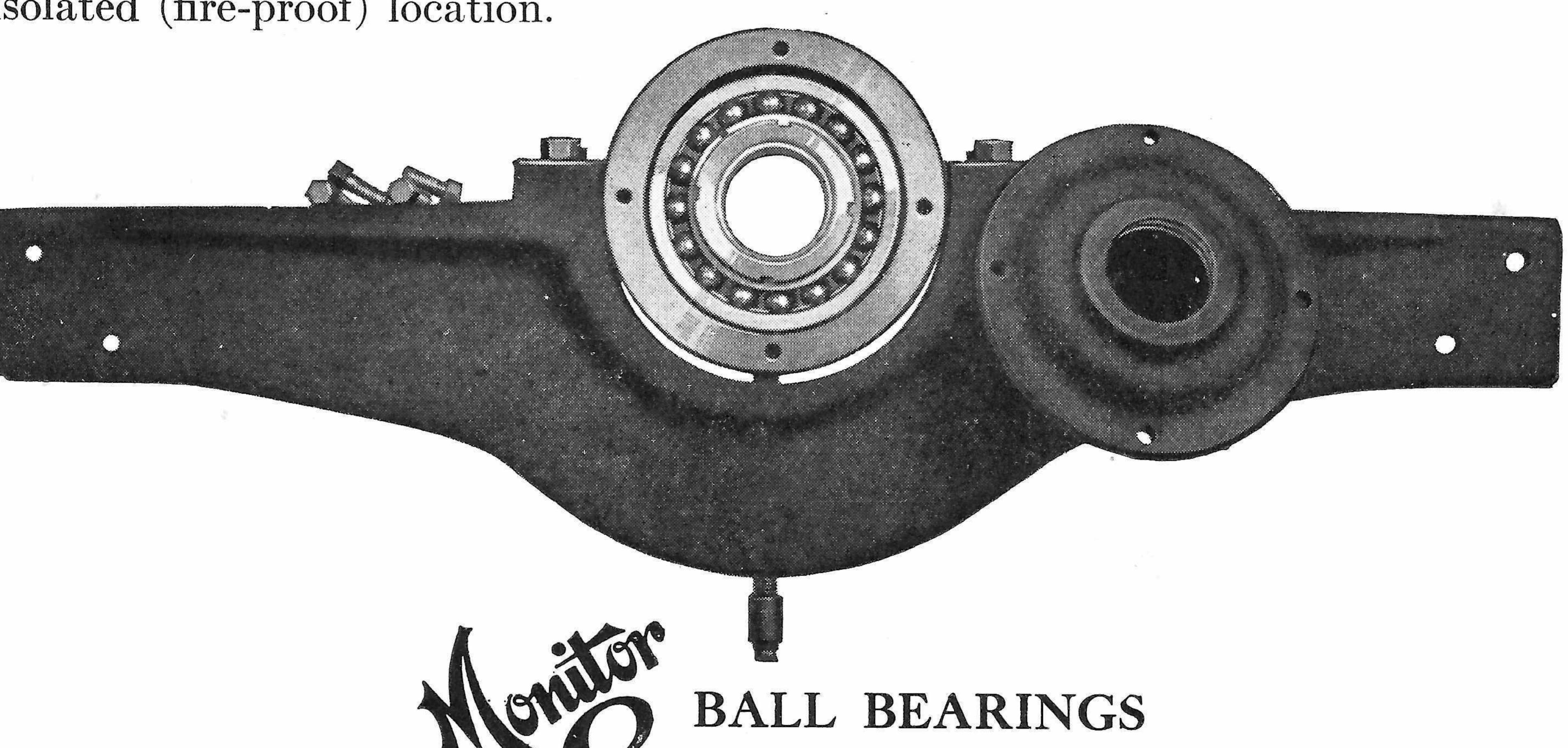
Observe the heavy construction of these dust-proof "Monitor" Bearings—a superior heavy-service outfit bearing in every respect. Bridgetrees are one-piece, high grade, gray iron castings and the solid caps are held in position with locked nuts. They are lined heavily with our special alloy of anti-friction metal; fitted and finished in a most painstaking manner—reamed to size and faced off at each end and side. Our improved method of setting "Monitor" Bridgetrees into position when assembling the complete machine insures free smooth running qualities—"Monitor" Bearings do not give trouble from heating.

All "Monitor" Scourer Bridgetrees have uncommonly long bearing surface—this in every case is three times or more the diameter of shaft they carry.

All "Monitor" Bearings are fully exposed—see illustrations pages 41 and 42.



EAVY-SERVICE, dust-proof, leak-proof, "chain" type of deep-reservoir, self-oiling bridgetree bearing supplied with "Monitor" Smutters and Scourers—if preferred, and so furnished unless otherwise specified, lubrication is by means of rings. Illustration faithfully portrays the massive proportions of these bridgetrees and the uncommonly long bearing surface, which is three, or more, times the shaft diameter. These bridgetrees are one-piece, high-grade, gray iron castings—the caps held to place with large locked nuts. They are heavily lined with special alloy of anti-friction metal—painstakingly fitted and finished. Our superior bridgetree construction and method of setting them into place when assembling machine insures smooth, enduring service—no trouble from heating. See illustrations pages 41 and 42—isolated (fire-proof) location.



EASURED by the saving in power and care, and high satisfaction they give "Monitor" Ball Bearings warrant their extra first cost—see list prices inside back cover. We use the well-known "S. K. F." Self-Aligning Ball Bearings, carried in a large, one-piece yoke, supported by the strongest bridgetree used in machinery of this kind—a massive one-piece casting. Their strong construction, unmatchable workmanship and finish insure "Monitor" users unequalled Ball Bearing service—their fitness for protracted, severe use has been widely demonstrated. Illustration shows side plate removed, this plate screws to place giving a dust-proof, leak-proof bearing, requiring infrequent attention. See fire-proof (isolated) bearing locations—illustrations pages 41 and 42

"MONITOR" SCOURING REGULATOR

America's First Scouring Regulator

Patented 1907

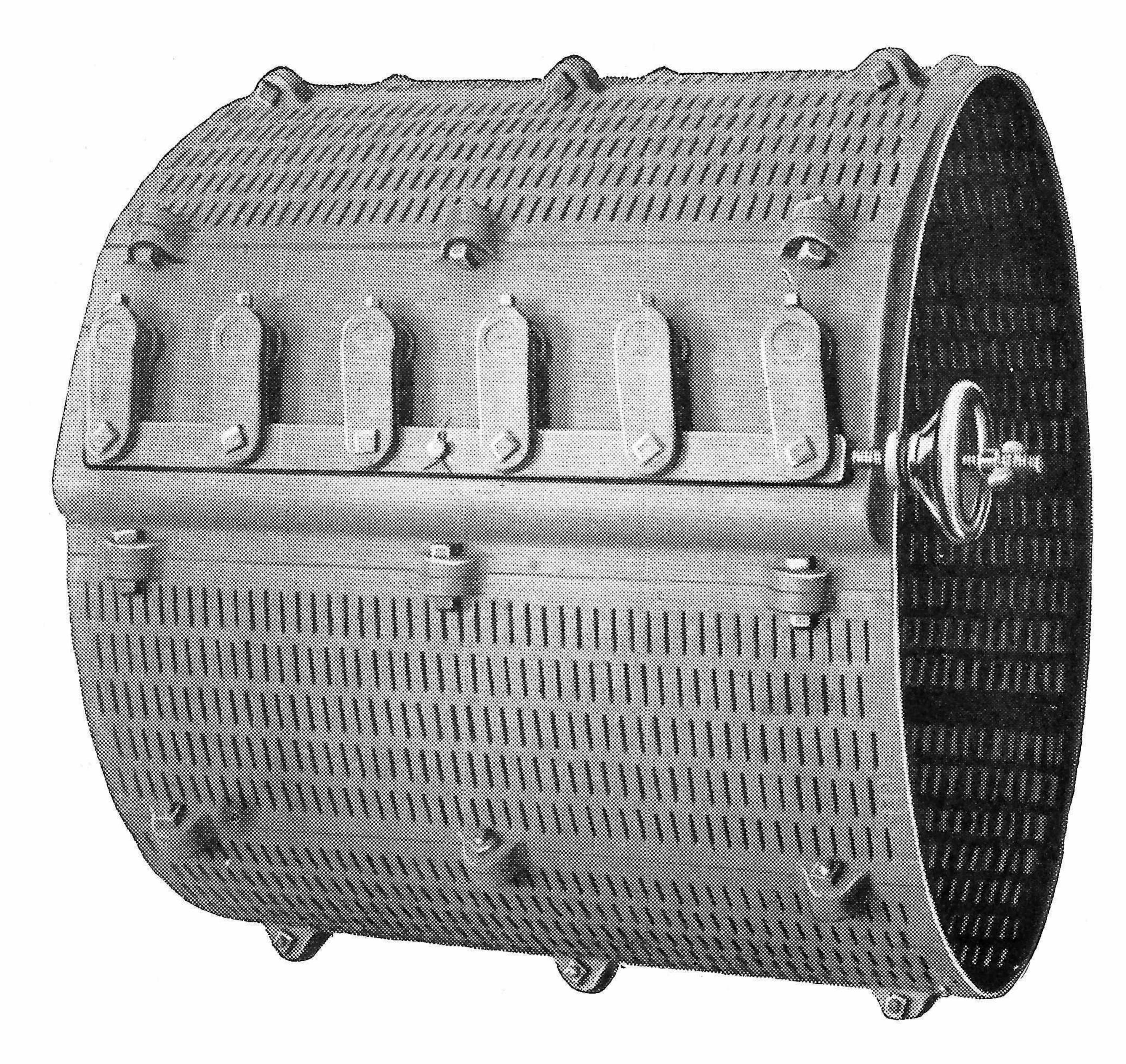
As the first and only direct applied and precisely controllable scouring regulator the "Monitor" stands out conspicuously as the most important, beneficial improvement of recent years in wheat scourer manufacture. Its introduction was a surprising innovation and for some time severe criticism was directed against it by other manufacturers of scourers. Today upwards of two thousand satisfied "Monitor" users are convincing proof of its firmly established position in modern-methods scouring. Our former critics have become converts—yet are with ut a dependable, efficient direct applied scouring regulator to offer—"Monitor" patents protecting to our genus essentials necessary to obtain direct applied regulation such as the "Monitor" affords.

As a simple, durable and dependable device the "Monitor" Scouring Regulator meets the highest expectations. By its use the miller applies scientific scouring to every lot of wheat handled. Every change in the kind or condition of wheat he mills is met with a change in scouring to suit—easily and quickly he manipulates the "Monitor" Scouring Regulator to set his scouring to exactly the standard he needs. The regulators are set over while machine is at full speed—no tools are required—read "Description."

DESCRIPTION

"Monitor" Scouring Regulators comprise a set of several ribbed surfaces, cast steel tumblers mounted on the inside of a heavy concave-shaped chilled stave, attached to and forming a part of the scouring case proper. A heavy steel shifting bar extends across full length of the scouring case, on the outside—see cut. One end of this bar projects to an upright post near discharge end of machine. At this point is a hand wheel with locking device, which controls the movement of the shifting bar. The shifting bar connects directly through the supporting stave with the several regulating tumblers on the inside. These tumblers stand in a vertical position, more or less.

In its passage through the space between the revolving cylinder and the outside scouring case, the wheat is repeatedly forced against the varying size of obstructive surfaces of the regulating tumblers. Changing the angle at which these tumblers stand, varies the amount of resistance offered to the rapidly revolving body of wheat. Shifting the connecting bar in either direction changes the position of the several tumblers—to illustrate: setting the tumblers over toward the feed end of the cylinder, or against the travel of the





SCOURING REGULATOR

Patented 1907

Illustration shows Regulators Attached to a "MONITOR" Scouring Case (Description continued)

wheat, checks the velocity of its passage. Instantly the hundreds of different sizes and shapes of chilled surfaces on the cylinder tooth beaters come in contact with the wheat an increased number of times, greater friction of the wheat against itself, the tooth beaters, and the scouring case is developed, and additional scouring and polishing results. Advance the position of the tumblers in the opposite direction and the velocity of the passage of wheat is increased, the contact of the wheat with the beaters is less frequent—the amount of scouring and polishing is consequently lessened.

OPERATION

Operator releases the locking device on the governor (hand) wheel while the machine is in full motion, carrying full load of wheat—and slowly rotates same. The entire set of tumblers on the regulating attachment responds to slightest movement of the wheel. This wheel being located near the discharge end of cylinder, the miller is able to take samples in one hand for inspection while with the other he slowly moves the wheel until he has the regulators set at the point where quality and quantity of work meet his requirements. The wheel is then locked in that position.

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Regulat Scouring r Without "MONITOR" Scourin DIMENSIONS, CAPACITIES, PRICES,

ETC.

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Speed—R. P. M. of cylinder shaft	650	600	930	575 455	550	525	200	475	450	425	400	450	400
ht with shoe, lb	900	1000	1100	1300	1650	1900	2150	2500	3300	\circ	4700	0019	0069
· 1000.													
*List price, with shoe	\$172 150	\$120 172 175	\$175 200	\$200 225	\$220 250	\$260 300	\$300 350	\$350 400	\$400 450	\$425 500	\$522 600	\$600 \$700	\$725 850
Equipped with "MONITOR" Scouring					*								
Regulator		*											
*List price, with shoe	\$140 165	\$165 190	\$195 220	\$220 245	\$245 275	\$282 325	\$330	435	\$440 490	\$470 545	\$570 645	092 \$600	\$790 915

illustrated page

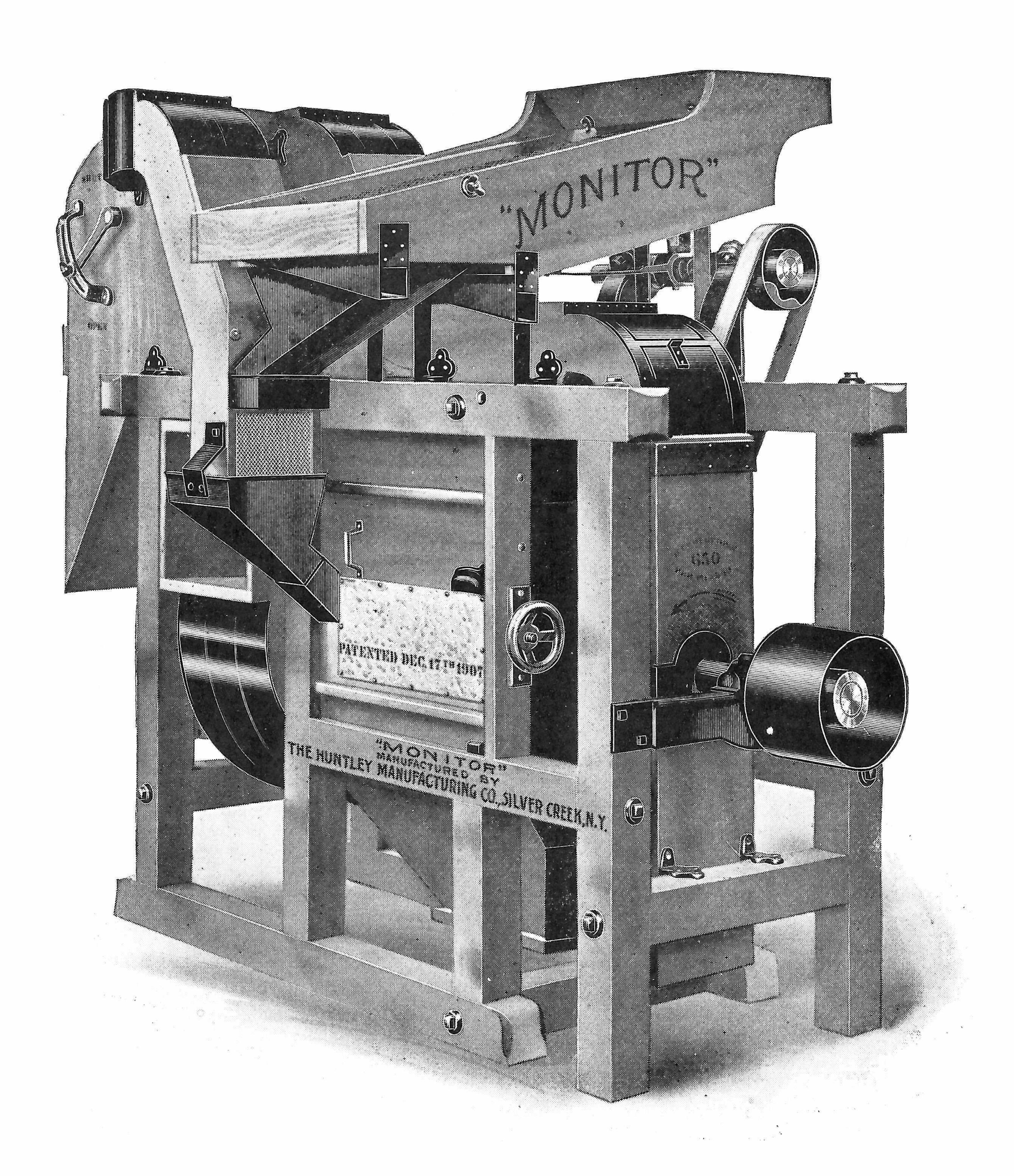
list inside back price See charge. extra are desired 47)

MEASURE ISIDE FAN CHO EN SIZE

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Fan outlet opening, depth	901%	100111111111111111111111111111111111111	1121 / 102 / 109 / 109	12½/ 10½/ 131	131/2 152/2 1530/2	14½" 12½" 18½	15½" 13½" 209	16½" 14½" 240	17½// 15½// 263	183" .163" 314	20 <u>4</u> 18 <u>1</u> " 370	20½ 18½″ 370	24" 20\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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SCREENS EXT PRICE LSI

SIZE NO.	00			2	೧೦	\\	Ŋ	9	\	80	೧	01	
Main, completeSeed, complete	\$4.00	\$5.00	\$5.50	\$6.00	\$7.00	\$8.50	\$11.50	\$12.00	\$14.00	\$16.00	\$18.00	\$20.00	\$22.00
	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50



"MONITOR" WHEAT SCOURER AND POLISHER

Removing more smut, dirt, fuzz and impurities, with less power to capacity handled, this machine easily leads the world as a thorough and economical "Single" scourer. A favorite with thousands of millers by virtue of its close regulation and adaptability to all kinds and condition of wheat. The strongest made and most perfectly fitted and finished scourer of today. Its use eliminates the liability of breakage and waste of good wheat. Easy to operate. Costs little to maintain. Will outwear any machine manufactured. For the most in scouring with the least in trouble and expense, the "Monitor" merits your order. Operation, see pages 52.

CONSTRUCTION—EQUIPMENT

Shoe (two screen separations); counterbalanced with counterweight fly wheels on the small sizes—larger machines "compound" drive, see illustration page 65—Air separations—two, before and after scouring—see "Aspirations," page 42—Screenings tips discharging purified screenings overhang at end or side, as preferred—see page 64—Ventilation is full-length-of-cylinder principle—see page 43—Self-oiling bearings, ring or chain type (see pages 46 and 47)—at extra price ball bearings—see page 47—Scouring cylinder, adjustable, chilled tooth type, illustrated page 43—"Monitor" Scouring Regulator—see pages 48 and 49—Heavy-service construction—see important listing, page 41—Exposed bearings—illustrations pages 41 and 42—Scouring cases—see pages 44 and 45.

"MONITOR" WHEAT SCOURERS

OPERATION—"SINGLE" MACHINE

F equipped with shoe, two screen separations are performed. The shoe is provided with a top screen having coarse perforations and bottom screen with fine perforations. Wheat is spouted to hopper over head end of shoe and flows through feed gate to the top screen. The wheat passes through the openings in this screen, while all foreign matter, larger in size than the wheat, flows over screen and is discharged in spout at lower end. The wheat flows across full length of the fine bottom screen, the cockle, foul seed, sand, etc., passing through the openings in same and discharging out of spout underneath shoe. Wheat discharges from shoe into suction leg where the first air separation takes place.

If shoe is not supplied, a feed box with self-releasing, weighted gate is attached to this suction leg and wheat is spouted direct to same.

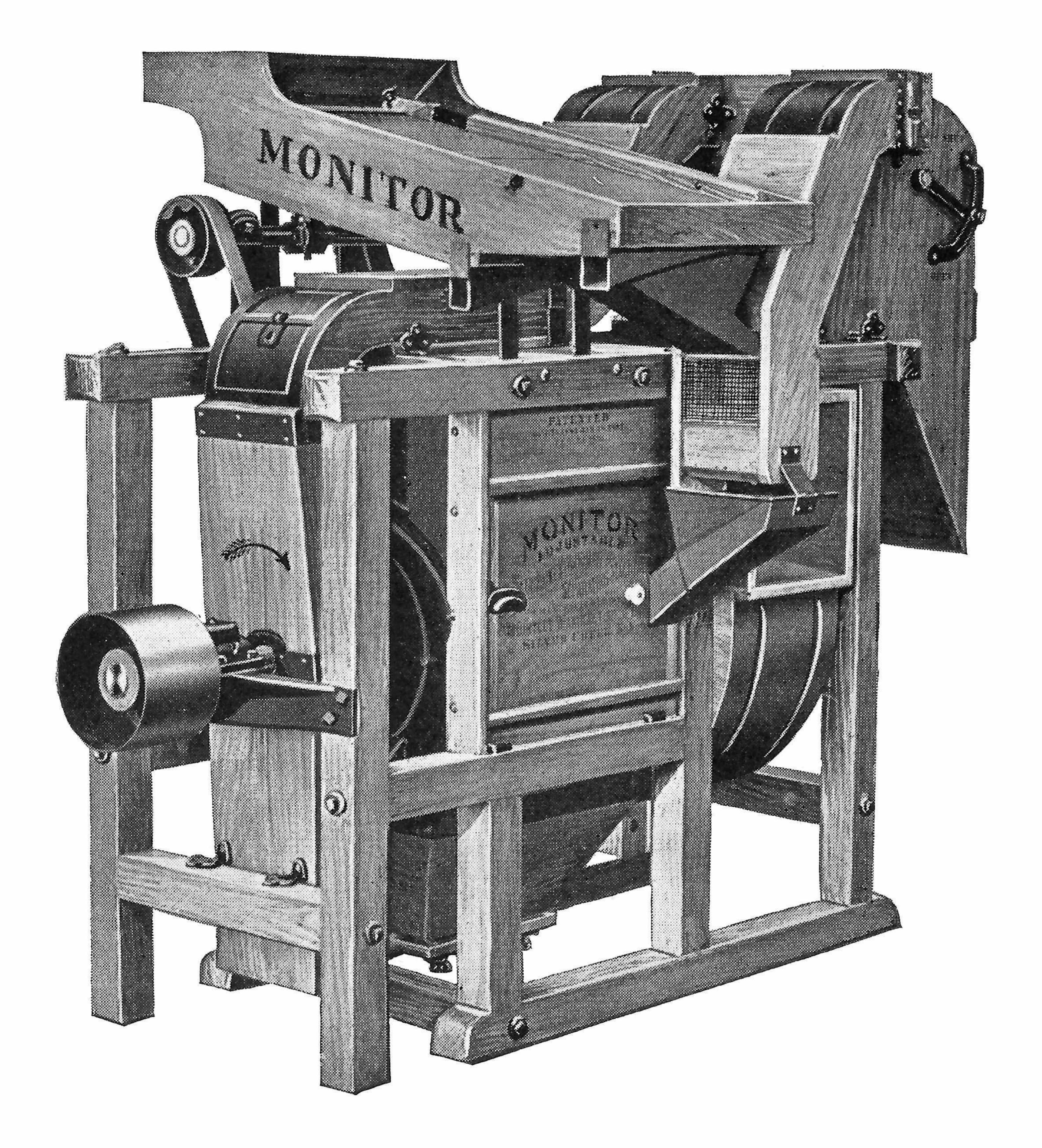
The stream of wheat as it drops through suction leg into the scouring and polishing chamber is subjected to a powerful (entirely controllable) current of air, which draws off wild oats, weevil-eaten or immature wheat, smut balls, chaff, dust, etc. This stock passes through settlings chamber where it is purified, the fine dust and chaff discharging out of fan, the purified screenings delivered from the separator tip. Reaching the scouring chamber the wheat is repeatedly ended and rubbed against itself, the rapidly revolving tooth beater cylinder and the ventilated scouring case. Sufficient friction is developed to remove the smut, fuzz and dirt. The work is severe but never harmful. These parts are subject to adjustment to suit varying conditions and can be controlled by direct applied regulation—see "Monitor" Scouring Regulator, pages 48 and 49. The large volume of fresh air drawn into the scouring chamber insures perfect, clean work; all scourings are removed through the openings in ventilated case as soon as they are loosened by the scouring and polishing action—a perfected "Monitor" feature. Discharging from scouring and polishing cylinder into second suction leg the wheat is again aspirated; any remaining impurities are drawn off, the light dust, etc., going to fan, the heavier stock to settlings tip.

OPERATION-

"TWO-HIGH ONE-FAN" MACHINE

"TWO-HIGH TWO-FAN" MACHINE

The operation of both is practically the same as described above for the "Single." Instead of two air separations, and one scouring and polishing operation as on a "single" machine, there are four air separations, one before and after the scouring and polishing work of the two cylinders. Two screen separations are effected when shoe is supplied.



"MONITOR" WHEAT SCOURER AND POLISHER

Against Sun—(Left-Hand) Machine

here a "Monitor" Single Scourer running in the opposite direction to the machine illustrated on page 51. Next, turn over to "top view" plans, page 69, above scourer is the same as "Fig. 3" construction. Then refer to page 68, "end view plans"—the fan discharge of above scourer is like "Fig. "K"—regular for against sun machines, unless otherwise specified. If you are uncertain as to placing a scourer send us pencil sketch and we will draw plan of a "Monitor" suited to your space—this service is free.

POLISHER SCOURER

Regula Scouring or Without "MONITOR" Scourin DIMENSIONS, CAPACITIES, PRICES, Or With

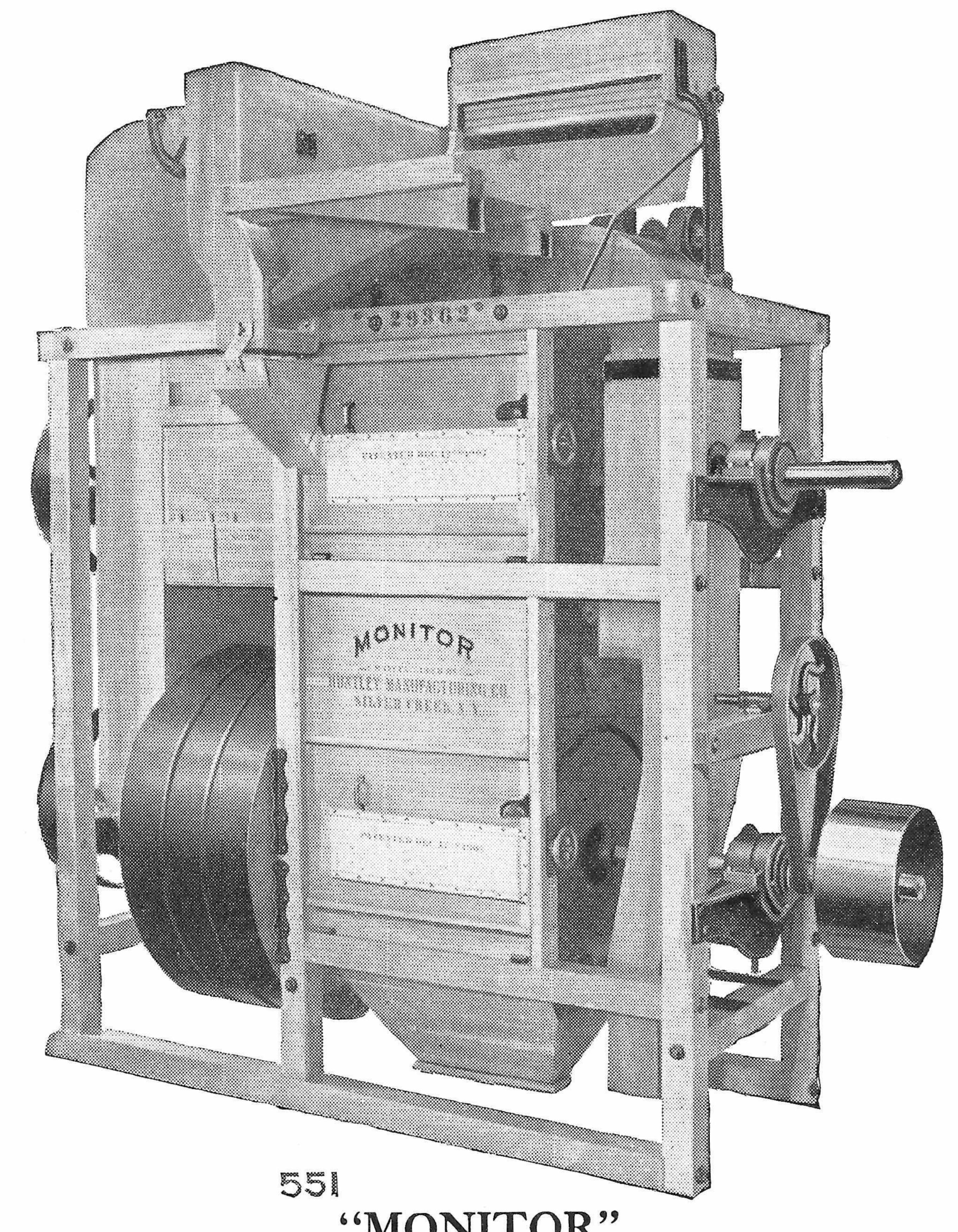
SIZE NO.	00			~7		4		. 9		000
Extreme height with shoe and feed hopper	Feed]	hopper not su	upplied	1/8 //		0,8	10, 2"	1	11, 11,	12' 7"
	5' 11"			/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					11' 2"	11, 10,
height without shoe	2, 10"	<i>"</i> 9 <i>"</i> 9		"0"				ò		
	2, 10,,	6' 4"	-	2, 3"				6		
	3, 1"	3, 4"		3, 2"						
	2′ 8″	3, 0,,		3' 4"						
	4' 7"	2, 1"		6, 2,						
Width on floor	1, 10,	2, 0,,		2, 1"						
Height to where grain enters feed hopper (with shoe)	. 1			1 /8 /2					-	
Height to where grain falls on shoe, no hopper	.2' 11"	<i>"</i> 9 <i>'</i> 9		// I"		12				
Height to where grain enters, without shoe	2, 8%	6, 2"		<i>"</i> 2 /9	2 134 27					
to center of drive pulle	,'9 ,T	1, 8,,	1, 8,,	1, 10,		2, 5"	2, 2"	2, 10"		
driving) sl	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	121	1 3	$\frac{1}{16}$		$2\frac{1}{4}''$	-ICA	7	3%	
iving pulley	10" x 5"	10" x 6"	\bowtie	12" x 6"	7	16" x 8"	18" x 9"	$20'' \times 10''$	22" x 12"	24" x 12"
linder shaft	650	009	0	575		525	0	475	450	425
Capacity, bushels per hour	10	20	30	45		. 08	100	150	200	250
4	1400	1600	1800	2100		3400	3750	4250	2000	2600
Regular Equipment										
ist	\$220	\$265	\$310	\$350	A TO	\$450	\$530	\$610	\$675	C//#
	245	290	335	380		200	580	650	750	850
Equipped with "MONITOR" Scouring Regulator										
*List price, without shoe	\$245	\$295	\$340	\$382	\$430	\$195	\$585	· 029\$	\$745	\$822 \$855
*List price, with shoe.	270	320	365	415	460	545	635	710	820	930

desiredareball bearings (illustrated page equipment of deep reservoir self-oiling bearings.

If "MONITOR" ball bearings (illustrated page

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SIZE NO.	00	0.		2	3	4	n	9	7	00
Fan outlet opening, depth. Fan outlet opening, width. Total area fan outlet.	$ \begin{array}{c} 10\frac{1}{2}'' \\ 11\frac{1}{2}'' \\ 120 \end{array} $	$12\frac{1}{2}$ $12\frac{1}{2}$ 156	13½" 13½" 182	14½" 14½" 210	$15\frac{1}{2}$ $15\frac{1}{2}$ 240	$16\frac{1}{2}''$ $16\frac{1}{2}''$ 273	17½" 17½" 306	$\frac{18\frac{1}{2}''}{18\frac{1}{2}''}$ 340	$ \begin{array}{c} 19\frac{1}{2}" \\ 19\frac{1}{2}" \\ 380 \\ \end{array} $	$\begin{array}{c} 20\frac{1}{2}"\\ 20\frac{1}{2}"\\ 420 \end{array}$
		When orderi	ering refer to	pages 68,	. 20 .69					
		IST PRIC	EXTR	A SCRE	氏 N S S					
SIZE NO.	00	0		~	c	4	20	9		8
Main, complete	\$4.00 2.50	3.00 3.00 00.00	\$5.50 3.50	\$6.00 4.00	\$7.00 4.50	\$8.50 5.00	\$11.50 5.50	\$12.00 6.00	\$14.00 6.50	\$16.00 7.00



"MONITOR"

TWO-HIGH, ONE-FAN WHEAT SCOURER AND POLISHER

as two of our "Singles" with this exception—the substitution of one, larger, fan. Our world-wide success with this model is due to the foresight of its designers—they sacrificed nothing in "Single" "Monitor" efficiency to get this desired two-machines-in-one construction. For this "Double" we take the same wonderfully strong claims made for our "Single" Scourer (see page 51) and double them—we can safely do so. The most efficient smutty wheat scourer ever set in a mill. A compact, get-at-able, outfit. Its use means a considerable saving in floor space, elevators, spouting, care, etc.—first cost is less than for two "Singles"—power consumption is less. When desired we equip lower cylinder as a brush finisher—at slightly increased price. "Operation," see page 52.

CONSTRUCTION—EQUIPMENT

Shoe (two screen separations): counterbalanced with counterweight fly wheels on small sizes—a "compound" drive on the larger sizes—see page 65——Air separations—before and after each scouring—Screenings tips overhang at side—Ventilation—full length air supply each cylinder—see page 43——Self-oiling bearings, ring or chain type—see pages 46 and 47—at extra price ball bearings—see page 47——Scouring cylinders, adjustable chilled tooth design, illustrated page 43——"Monitor" Scouring Regulator—see pages 48 and 49——Heavy-service construction, detailed on page 41——Exposed bearings—see illustrations, pages 41 and 42——Scouring case—see pages 44 and 45.

POLISHER AND SCOURER

Regula Scouring OR. MONI Without With

ETC. CAPACITIES, PRICES, DIMENSIONS,

SIZE NO.	8					4	10	9		∞
Extreme height with shoe and feed hopper. Extreme height without feed hopper. Extreme height without shoe. Extreme length. Extreme width with shoe. Extreme width with shoe. Extreme width without shoe. Extreme width without shoe. Length on floor. Width on floor. Width on floor. Height to where grain falls on shoe. Height to where grain enters, without shoe. Height to center of drive pulley (cylinder shaft). Diameter of cylinder (driving) shafts, entire length. Size of driving pulley. Size of driving pulley. Specd—R. P. M. of cylinder shafts. Capacity, bushels per hour. Regular Equipment *List price, without shoe. Equipped with "MONITOR" Scouring Regulator *List price, with shoe. Extreme with shoe. *List price, with shoe.	Feed he 7, 8% 7, 8% 8, 8% 8, 8% 8, 11, 10, 11, 10, 10, 11, 10, 10, 10, 10	opper not su 8′ 2″ 8′ 1″ 6′ 6″ 3′ 4″ 3′ 4″ 1115″ 1115″ 1115″ 1150 1150 1150 1150 1150 1150 1150 1150 1150	pplied 8', 2", 8', 11", 6', 10", 3', 4", 10", 2', 0", 0", 2',	10, 99, 88, 99, 88, 39, 73, 73, 73, 73, 73, 73, 73, 73, 73, 73	10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	11, 8", 111, 0", 111, 0", 11, 0", 11, 0", 11, 0", 11, 0", 11, 0", 10, 11, 0", 10, 11, 10, 11, 11, 11, 11, 11, 11, 11	12, 5, 11, 8, 11, 10, 10, 10, 10, 10, 10, 10, 10, 10	13, 6" 12, 9" 12, 9" 5, 1" 2, 1" 2, 11" 2, 11" 2, 11" 475 475 475 475 475 8700 8700 8700 8700 8700	13' 11" 13' 2" 13' 2" 10' 7" 5' 8" 5' 8" 3' 0" 3' 0" 3'' 2" 11' 7" 3'' 0" 5400 5400 5400 5400 5400 5400	14, 0, 13, 13, 13, 11, 14, 6, 11, 4, 12, 13, 11, 14, 13, 11, 11, 14, 12, 12, 13, 11, 14, 12, 12, 12, 12, 12, 12, 12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10

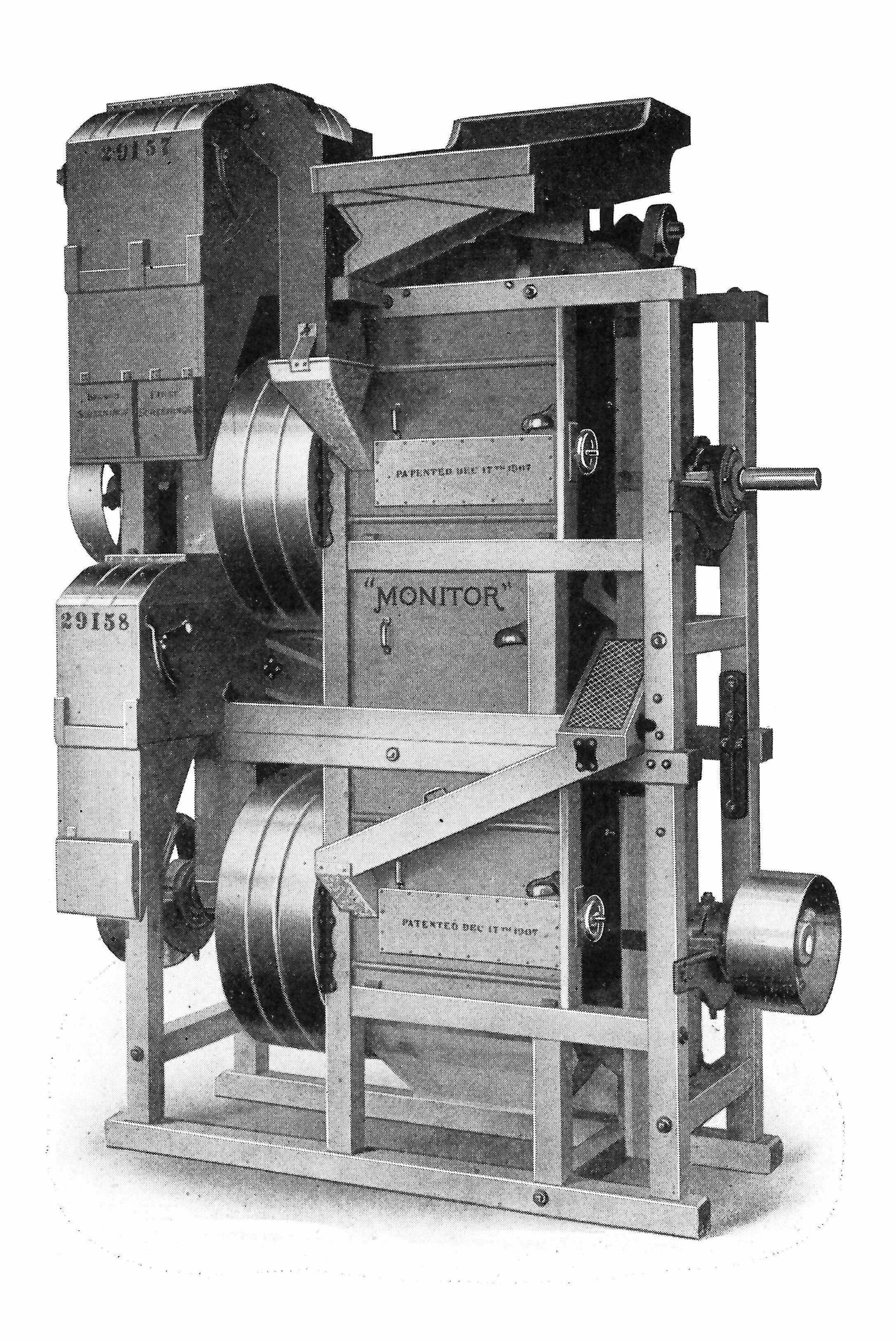
-oiling bearings. (illustrated page equipment of deep reservoir self. If "MONITOR" ball bearings

See price list inside back charge. extra. are desired 47)

SIZE	E OF EA	CH FAN	OUTLE	IISNII—IX	E	MEASURE				
SIZE NO.	00			~7	ر د د	4	10	co		00
Fan outlet opening, depth. Fan outlet opening, width. Total area both fan outlets.	9½″ 9½″ 180	$\begin{array}{c} 11\frac{1}{2}'' \\ 9\frac{1}{2}'' \\ 218 \end{array}$	11½" 9½" 218	$\frac{12^{\frac{1}{2}}}{10^{\frac{1}{2}}}$ 262	$\begin{array}{c} 13\frac{1}{2}''\\ 11\frac{1}{2}''\\ 310 \end{array}$	$\frac{14\frac{1}{2}''}{12\frac{1}{2}''}$ 362	15½" 13½" 418	16½" 14½" 478	$\frac{17\frac{1}{2}''}{15\frac{1}{2}''}$ $\frac{542}{2}$	18 ³ / ₄ 16 ³ / ₄ 628
		When orderi	ering refer to	pages 68,	69, 70.					

SCREENS EX PRICE LSI

SIZE NO.	00			~	ന ച	4	20	9		00
Main, complete	\$4.00	\$5.00	\$5.50	\$6.00	\$7.00	\$8.50	\$11.50	\$12.00	\$14.00	\$16.00
	2.50	3.00	\$3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00



"MONITOR"

TWO-HIGH, TWO-FANS WHEAT SCOURER AND POLISHER

Two distinct and complete machines set one-over-the-other to save floor space, they embody twice all those desirable and distinctly superior features described for the "Single" "Monitor" Scourer on page 51. When the shoe is used eight separations are obtained, without it six. Our method of "two-high" mounting insures rigidity and smooth running. Operation, see page 52. Advantageous features described pages 40 to 51.

CONSTRUCTION—EQUIPMENT

The same as described on page 51—doubled.

NOTE—If desired we can supply "Brush Finisher" cylinder for lower machine—at slight increase in price.

ZIL ON W PEEER 6

Regulators 66MONITORS Without With

PRICES, PACITIES, DIMENSIONS,

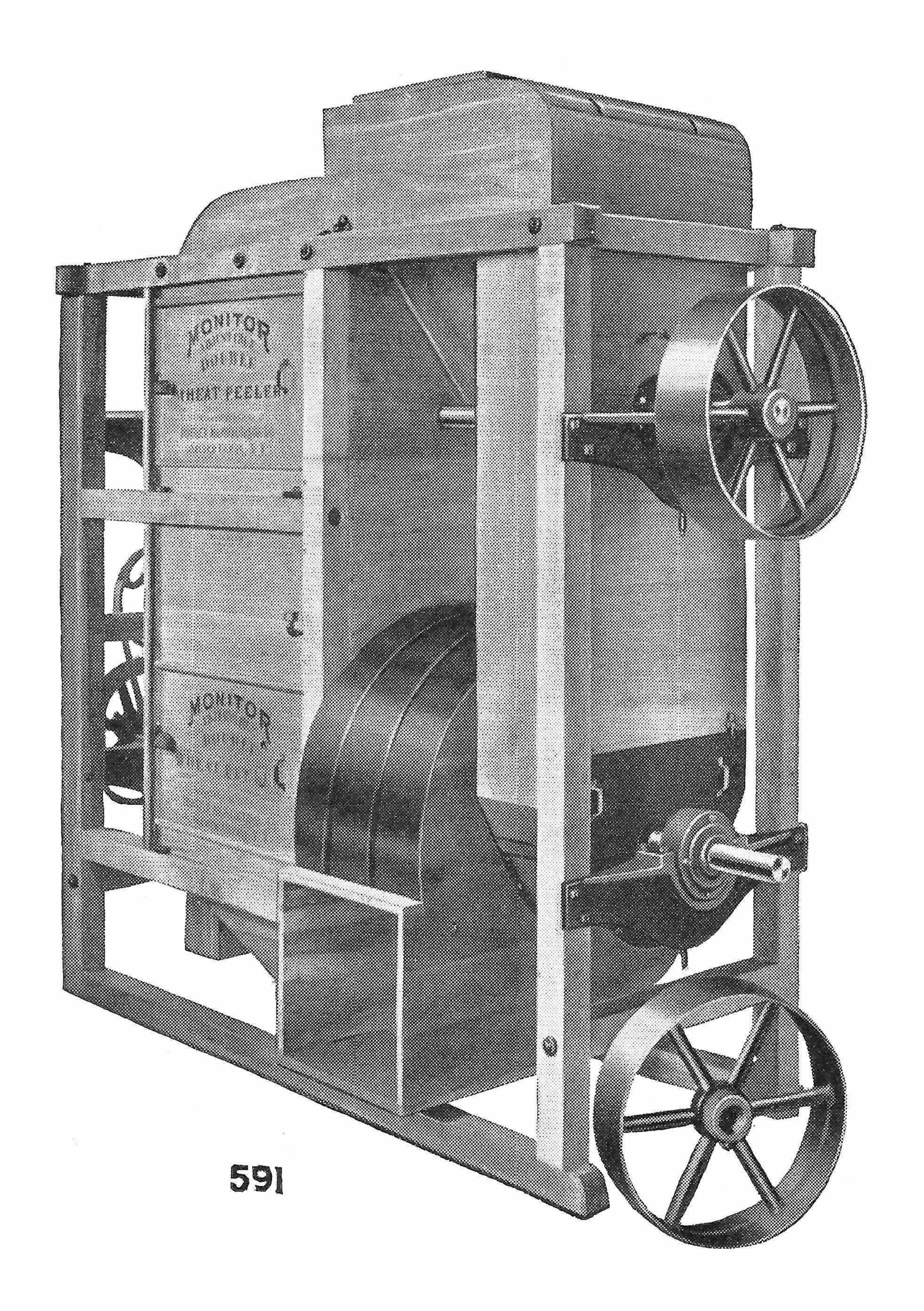
	ENSIONS,	CAPACIT	TES, PRIC	五 の の の の の の の の の の の の の					
SIZE NO.			63	C12	4	40			
leight	9 ,9	19 19		8, 4"	, S	10T 6	10,00	130	
length	6, 4,	101 29	12	/OT /	<i>19</i> /8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\6 \6	10,4"	/OI /OI
width.		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	。 で 1年	% '6' '8'	77	4 2 2 2	4'8")))	54
n floor.) T	29	18	Dags:	/T	19 12	<i>16</i> %	8) 70
on floor		10) 67		16 18	20 /2	100 100	% 'S	% 10"
where wheat enters		\S\ \S\	12	-	% %	%O \6	`6°) ()	, 6 '6
to center of drive pulley (cylinder shaft)	\	18	/OI /I	100 100	2, 2, 2,	12	101 78	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18.
er of cylinder (driving) shafts, entire length	# 12 m	1 1 <u>1 5 </u> //	1 1 1 2 N	211	2 <u>1</u> %	211	21/2	200	, , ,
iving pulley	10" x 6"	10" x 6"	12" x 6"	14" x 7"	"8 x "91	18" x 9"	20" x 10"	"ZI X "2%	21" × 12"
Speed—R. P. M. of cylinder shafts	009	009	575	250	525	200	475	450	425
ity, bushels per hour	- S	30	40	9	80		09	000	250
proximate shipping weight, pounds	7400	0097	1800	2400	3000	3300	3650	4400	2000
omplete without regulators	\$295	\$345	068\$	\$435	\$500	\$590	8680	\$755 5755	098\$
price, complete with regulators	20 20	3 2 3 3	4.25	475	545	645	740	278	076
	7) are desire	dextra ch	arge. See p	rice list insi	de back cov	Ž.			
SIZE OF				MEASO					
SIZE NO.			63		7				000
outlet opening, d	278	2 7 C T	7		161/2		1871	1911	201/2
utlet	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1321		1221	2 0 T 1 0 T	127 L	180 1	1011	201/
Total area fan outlet		60 70 70	0 0 0	04°	67 67 62 63	306	340 04年	380	420
	When order	ing refer	o pages oo,						

bearings. oiling selfreservoir deep of equipment regul 4

MEASURE INSIDE Z FA 日 日 日 SIZE

SIZE NO.			63	6.5			6		000
Fan outlet opening, depth	1871 1921 1981	1871 1821 1821	14½" 14½" 210	151, 151, 152,	1621 2021 2022 2023	171" 172" 306	18½" 18½" 340	191/ 192/ 380	20½ 20½″ 420½ 420

inside price list See extra desired are page (illustrated bearings ball "MONITOR"



"MONITOR" WHEAT PEELER AND FINISHER

PEELING wheat is a simple, inexpensive means of improving the color of flour—if properly handled. We offer the "Monitor" as a perfect peeler and finisher. It is our belief that a single machine is not sufficiently thorough, that a finisher is necessary always—hence this improved, complete "Monitor" outfit.

With a "Monitor" the outer coating of bran, bees wing, fuzz and crease dirt are removed—these results are obtained with light power and general operating expense. The work is uniform and thorough—and breakage or waste of wheat is eliminated. Upper cylinder is a peeler, lower cylinder a finisher. See testimonials from satisfied "Monitor" users—this system is worthy investigation.

CONSTRUCTION—EQUIPMENT

Air separations—before and after the work of the peeling and finisher cylinders—lightest stock discharged from fan, heavier from tips at side—Self-oiling bearings, ring or chain—see pages 46 and 47—ball bearings, extra charge, see page 47—Peeling and finisher cylinders are ventilated pattern—both adjustable design—these operate in heavy chilled surface, ventilated cases—All bearings exposed—see pages 41 and 42—Heavy-service construction, same as described for "Monitor" Scourers, page 41.

'MONITOR" BRUSH FINISHER AND POLISHER

With or Without "MONITOR" Polishing Regulator

DIMENSIONS, CAPACITIES, PRICES, ETC.

SIZE NO.			~		4	10	•		00
me height with sho me height without me height without me length	\$180 \$205 \$180 \$205 \$205	\$250 \$250 \$250 \$210 \$235	6, 5, 5, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,		H4 × 0/00 H70 4	7, 10" 6, 9" 9, 3" 4, 11" 7, 10" 7, 10" 7, 10" 100 100 1950 410	8, 22, 23, 23, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	8, 6% 10, 7, 9% 5, 9% 3, 0, 3% 3, 0, 3% 8, 450 2800 2800 2800 5, 30 8, 480 5, 30 5, 30 5, 30 5, 30 6, 30 6, 30 7, 90 7,	8, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
*List price, with shoe	\$200 \$200 \$252	\$230 \$250 \$250 \$250	\$200 \$200 \$200	\$230 320	\$345 385	₹400 450	\$460 510	\$530 280	\$565 640

^{*}Price for regular equipment of deep reservoir self-oiling bearings.

list inside back See price charge. extra are desiredpage 47) (illustrated bearings ball "MONITOR"

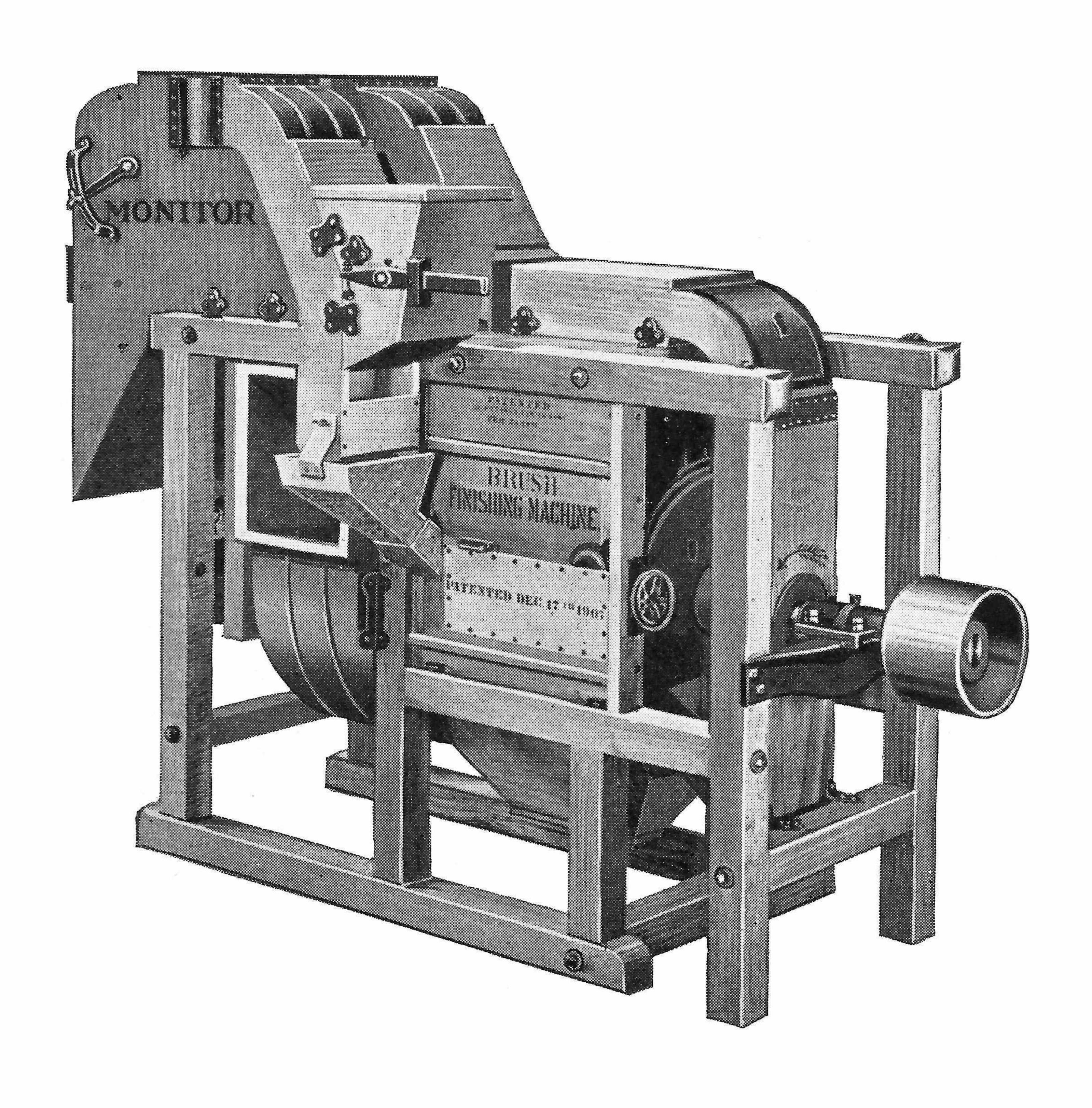
SIZE OF FAN OUTLET-INSIDE MEASURE

SIZE NO.			23	೧	7	'n	9		00
Fan outlet opening, depth. Fan outlet opening, width. Total area fan outlet.	11½" 9½" 109	11½" 9½" 109	$\frac{12\frac{1}{2}}{10\frac{1}{2}}$	13½" 11½" 155	14½" 12½" 18½	15½" 13½" 209	16½" 14½" 240	171" 154" 263	18 ³ / ₄ 16 ³ / ₄ 314

When ordering refer to pages 68, 69, 70.

LIST PRICE EXTRA SCREENS

SIZE NO.			~	<u></u>	4	10	9		~
Main, completeSeed, complete	\$5.00 3.00	\$5.50 3.50	\$6.00 4.00	\$7.00 4.50	\$8.50	\$11.50	\$12.00 6.00	\$14.00 6.50	\$16.00



"MONITOR"

BRUSH FINISHER AND POLISHER

As a finisher, a last touch to the wheat before it goes to the rolls, this machine gives excellent service. Cylinder is our semi-open construction, fitted with heavy drawn, double reinforced tampico brushes; these are adjustable and have unexcelled wearing qualities. Years of service in mills mostly everywhere have failed to uncover a single objectionable feature in these machines. Ventilation, of the gravest importance in a brush finisher, is a perfected "Monitor" feature—the cylinder and case have ventilation sufficient for all requirements. A heavy, closely governed air separation is applied ahead of and after the cylinder—the wheat is clean when it leaves the "Monitor."

CONSTRUCTION—EQUIPMENT

Air separations, two—similar to description, "Aspirations," on page 42—Screenings tips discharging heavier aspirated stock—at either side or end as desired, see page 64—Ventilation—see mention page 43—Self-oiling bearings, ring or chain type—see pages 46 and 47—at extra price, ball bearings, illustrated page 47—Brush polishing cylinder, ventilated type, adjustable—brushes best quality tampico, skillfully drawn and reinforced—"Monitor" Polishing Regulator applicable, see description pages 48 and 49—Heavy-service construction detailed page 41—Polishing case—see "Scouring Cases" pages 44 and 45.

PRICES, IES, DIMENSIONS,

	00	0		C 3	⇔	4	20	9		~	o	07	-
eme height with sho eme height without eme height without eme width with sho eme width with sho th on floor	5,44,66,44,66,76,76,76,76,76,76,76,76,76,76,76,76,	5,5,5,6,5,6,5,6,6,6,6,6,6,6,6,6,6,6,6,6			6, 9, 8, 5, 2, 3, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	7, 6, 6, 8, 7, 8, 6, 8, 8, 10, 8, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	7, 10" 6, 9" 9, 3" 4, 11" 6, 7" 3, 0"	3,7,9,7,8 3,7,9,3,7,8 0,8,1,9,3,7,2,0,2,1,0,2,1,0,2,1,0,2,1,0,2,1,0,2,1,0,2,1,2,1	8, 10" 8, 10" 7, 8" 5, 10" 3, 11" 3, 11"	11/2 8% 20/2 8% 20/2 20/2 8% 20/2 8% 2	10, 9, 3, 12, 4, 5, 11, 9, 11, 12, 2, 12, 2, 12, 2,	10, 9, 13, 6, 13, 0, 4, 11, 1, 3, 1, 4, 1, 3, 1, 3, 1, 3, 1, 3, 1, 4, 1, 3, 1, 3, 1, 1, 3, 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	10 90 90 90 90 90 90 90 90 90 90 90 90 90
where corn where corn		5, 5, 5, 6, 7, 4, 6, %		6, % %, %, %, %, %, %, %, %, %, %, %, %, %, %			7		8 6				7
shaft). Shaft). Shaft).	1, 6	2, 0,	2′ 0″	2′ 4″	23	2, 2,		2' 11"	3, 0%	3, 3%	37 6"		3′8″
Size of driving pulley. Speed—R. P. M. of cylinder shaf	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 15 % 8"x5 % 600 600	1 15 % 8"x5" 600 600	10"x5" 10"x5" 575	$\frac{2^{1}}{4}$ $\frac{2^{4}}{8}$ $\frac{2^{4}}{5^{2}}$ $\frac{2^{4}}{5^{2}}$	24" 14"x6" 525	$\frac{2^{\frac{1}{2}}}{16''x'}$ $\frac{500}{100}$	$\frac{2^{1}}{18''x7''}$	3" 20"x8" 450	W X CM	$\frac{3\frac{1}{4}''}{24''x10''}$	$\frac{3\frac{1}{2}''}{24''x_12''}$	$\frac{3\frac{1}{2}''}{24''x_12''}$
* Apparent * Tist pr	900 \$120 150	1000 \$150 175	1100 \$170 \$175	1300 \$200 \$225	1650 \$220 \$250	1900 \$260 300	2150 \$300 350	\$350 \$350 400	3300 \$400 450	3600 \$425 500	4700 4700 \$525 600	\$6100 \$600 700	6900 \$720 850

on wet corn, capacity is considerably less. nseq machine is to ದ II corn. dry re for *Capacities listed

See price list. extra charge. ball bearings (illustrated page 47) are desired of deep reservoir self-oiling bearings. equipment of deff ".f" "MONITOR"

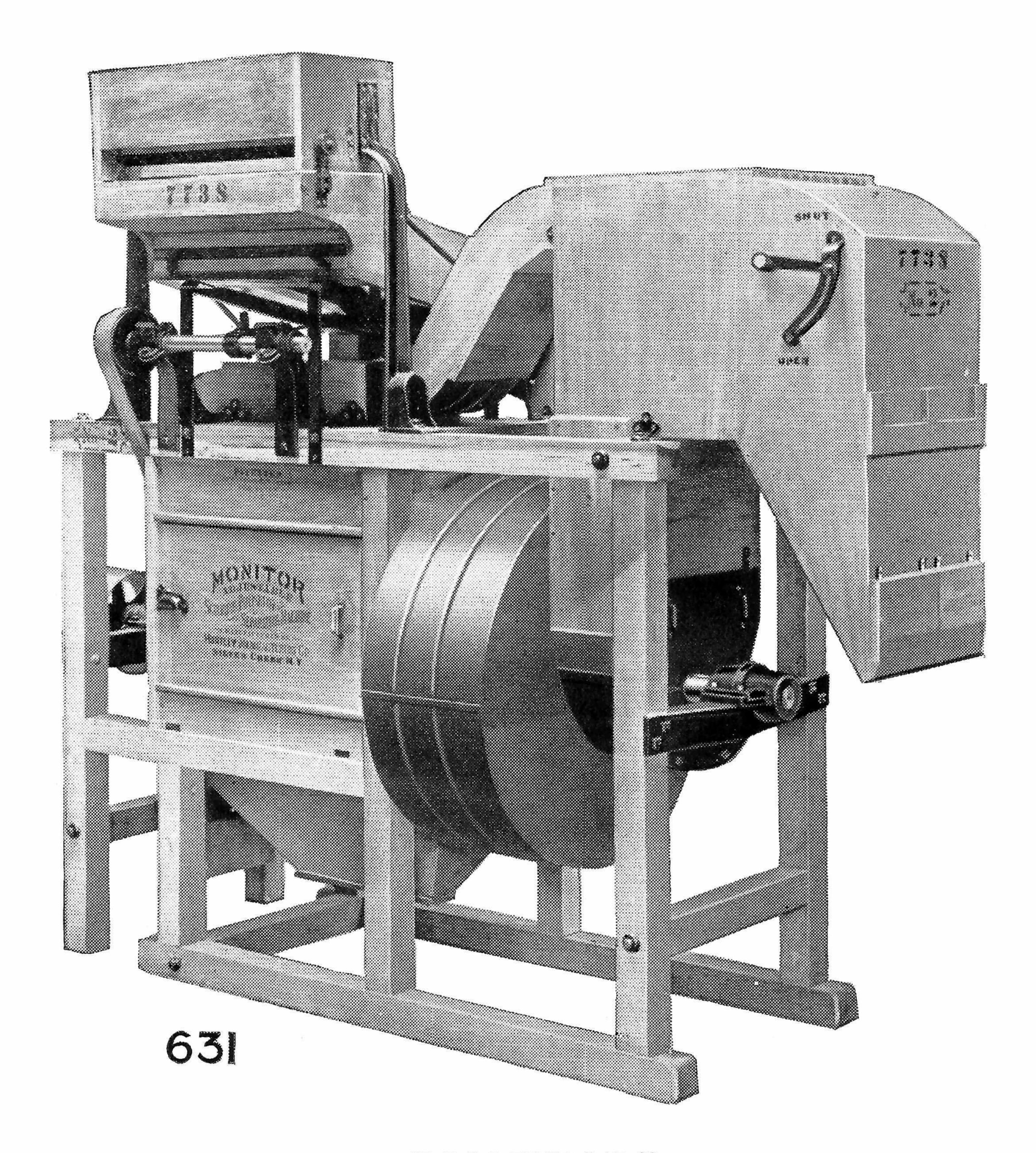
INSIDE FAN OF SIZE

SIZE NO.	00				<u>.</u>	4	NO	ေ	7	00	o	10	
Fan outlet opening, depth. Fan outlet opening, width. Total area fan outlet	9 ½ % 9 ½ % 9 0 ½ %	$\begin{array}{c} 11\frac{1}{2}''\\ 9\frac{1}{2}''\\ 109\end{array}$	$\begin{array}{c} 11\frac{1}{2}'' \\ 9\frac{1}{2}'' \\ 109 \end{array}$	$\frac{12^{11}}{10^{12}}$ $\frac{10^{12}}{131}$	13½" 13½" 1555	$\frac{14^{\frac{1}{2}}}{18^{\frac{1}{2}}}$	15½" 13½" 209	$16\frac{1}{2}''$ $14\frac{1}{2}''$ 240	17½" 15½" 263	183" 163" 314	20½" 18½" 370	20 <u>4</u> " 18 <u>1</u> " 370	24" 20 <u>4</u> " 430

79 69 to pages 68, ordering When

田 PRICE

SIZE NO.	00			~	€	4	ı	9	2	8	G	9	
Main, completeSeed, complete	\$4.00 2.50	\$5.00 \$3.00	\$5.50 3.50	\$6.00 4.00	\$7.00 4.50	\$8.50 5.00	\$11.50 5.50	\$12.00 6.00	\$14.00 6.50	\$16.00	\$18.00 7.50	\$20.00 8.00	\$22.00 8.50

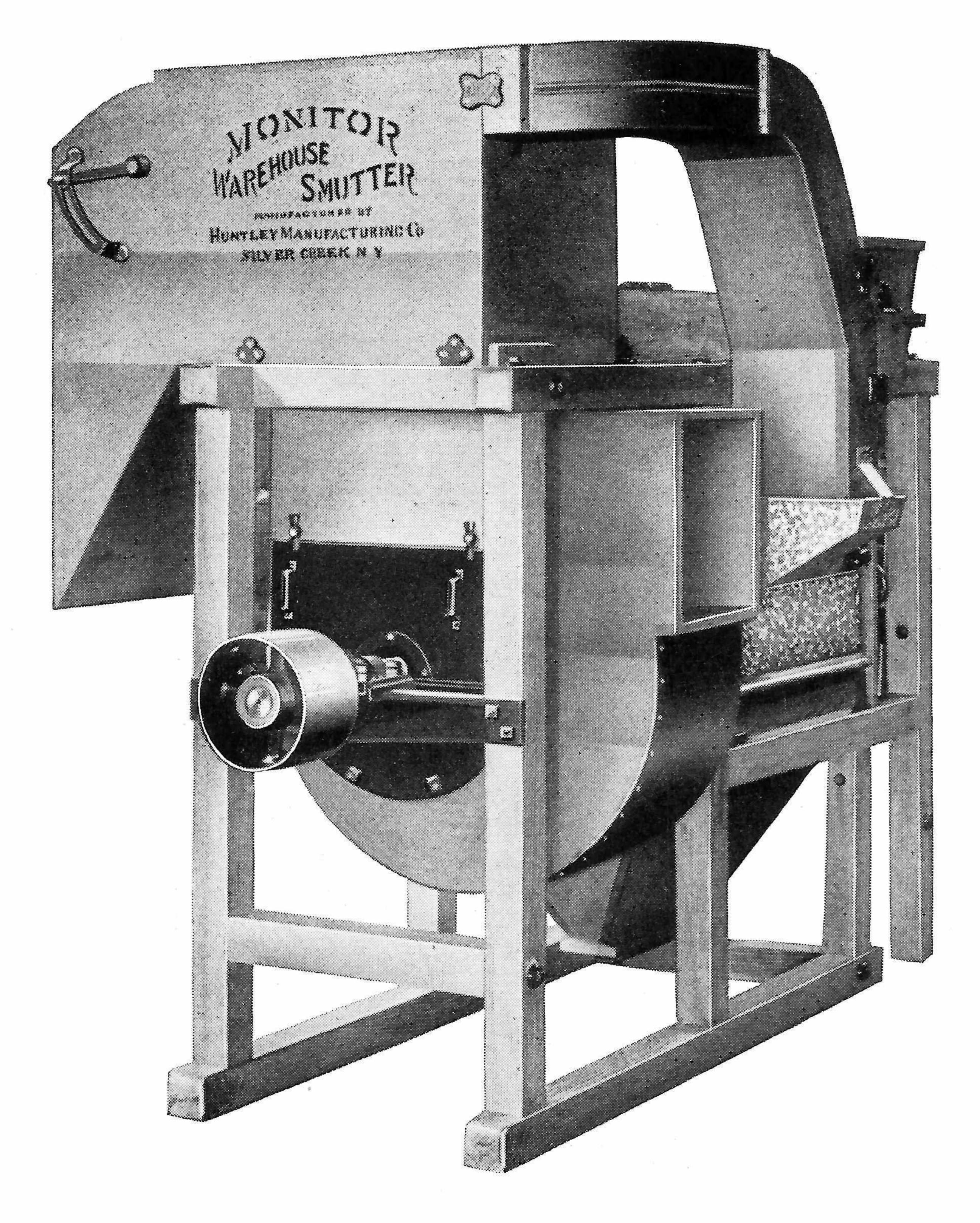


"MONITOR" CORN SCOURER AND POLISHER

THE "Monitor" will thoroughly scour either wet or dry corn without breakage—some scourer. On dry corn it removes all dirt and a heavy percentage of black caps. Used for wet corn it removes the black caps and practically all of the outside skin or bran—it does not cut the bran but removes it in flakes. Either dry or wet corn leaving the "Monitor" is ready for grinding. We were the first to abandon beater cylinder corn scourers, adopting our improved, endless spiral cylinder years ago and today more "Monitor" Corn Scourers are in successful operation in up-to-date corn mills than any machine on the market. Special stress is laid on the scouring cases we use—a novel and efficient case in all respects. Light power, ease of regulation, long service and simplified work are "Monitor" features.

CONSTRUCTION—EQUIPMENT

Shoe (two separations) counterbalanced with counterweight fly wheels on small sizes—large machines "compound" drive—see page 65—Air separations, two—before and after cylinder work—see "Aspirations," page 42—Aspirating tips discharge purified screenings at end or side, as ordered, see page 64—Ventilation, superior system similar to description, page 43—Self-oiling bearings, ring or chain, see pages 46 and 47—Ball bearings, at extra price, see page 47—Cylinder is our exclusive, continuous spiral design—Scouring case, segmental, chilled surface, ventilated—see "Cases," pages 44 and 45—All bearings exposed—see pages 41 and 42—Heavy-service construction detailed on page 41.





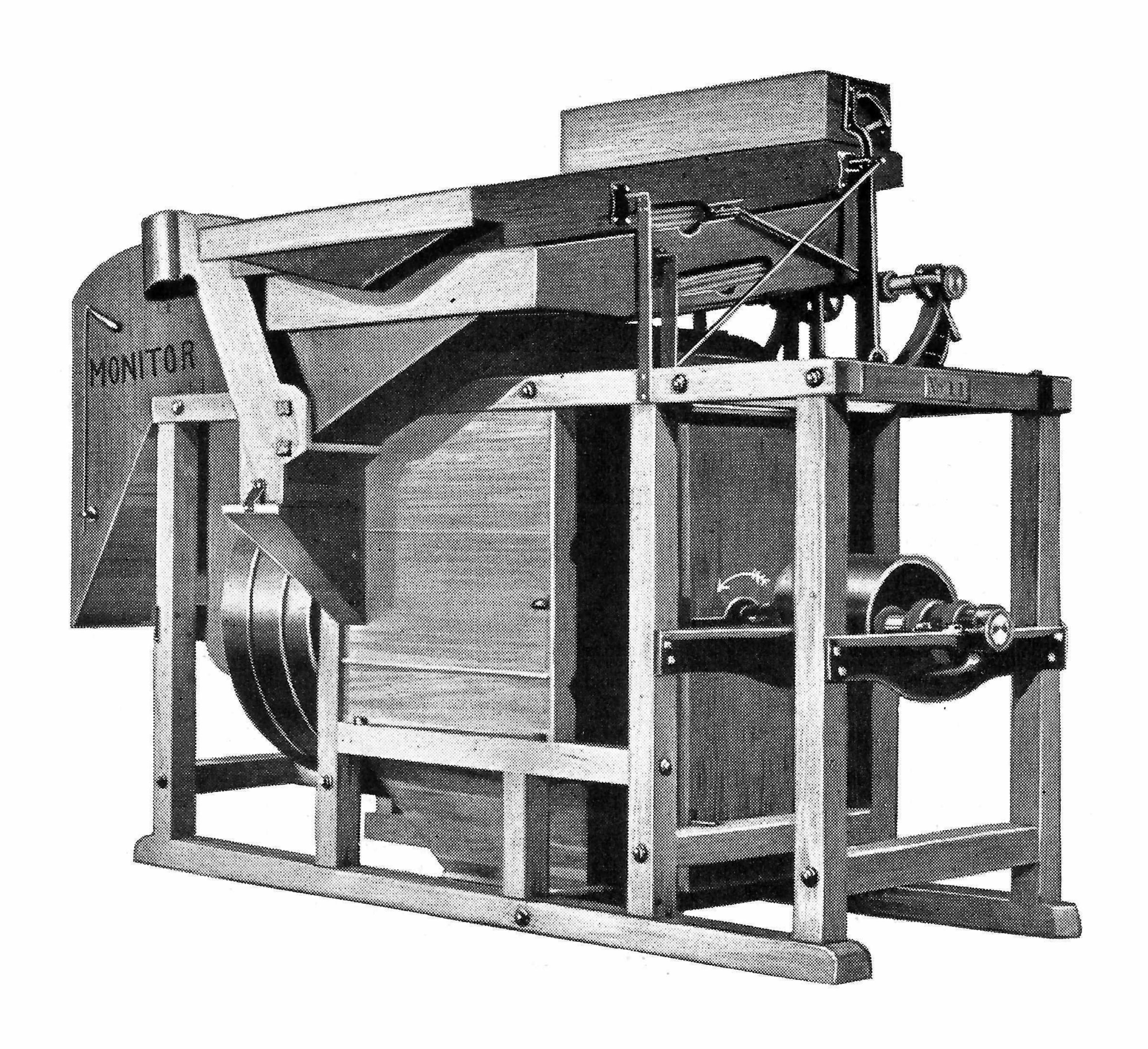
WITH SCREENINGS TIP OVERHANG ON SIDE OF MACHINE

BOVE illustration is a view of a "Monitor" Scourer as you stand facing fan end of machine. On nearly all "Monitor" Scourers, as regularly built, the screenings tip overhang extends out over end of machine, instead of at the side as shown on the above illustration. If it is desired to have the screenings tip overhang at side of machine, the following machines may be so arranged:

- "Monitor" Scourer, page 51.
- "Monitor" Scourer, page 53.
- "Monitor" Two-High, Two-Fan Scourer, page 57 (cut shows side overhang).
- "Monitor" Brush Finisher, page 61.
- "Monitor" Corn Scourer, page 63.
- "Monitor" Oat Groats Polisher, page 67.

The dimensions given in their respective tables for any machines enumerated also apply for above type of construction, with the following exceptions:

SIZE NO.	1	2	3	4	5	6	7	8	9	10	11
Extreme length Extreme width with shoe Extreme width without shoe.	$4'0\frac{1}{2}''$	$4'5\frac{1}{2}'$	$5'0\frac{1}{2}''$	$5'3\frac{3}{4}''$	5' 11"	6' 8"	7' 03"	7' 5"	10' 10 ³ '' 8' 5'' 8' 0"	11' 67'' 9' 13'' 8' 43''	12' 0" 8' 3" 7'5\frac{1}{3}"



"MONITOR" SCOURER

Extended Frame with Outboard Bearing
Two-Piece Shoe—Self-Balancing Drive

N the larger capacity "Monitor" Scourers the above style of extended frame with outboard bearing is often preferred over our standard drive. Experience proves this method of building out the frame insures the most rigid outboard bearing drive possible. When so ordered we supply "Monitors" built in this manner.

Where a shoe is necessary on large capacity scourers our improved self-balancing drive as shown will give superior service. Instead of one shoe as on the smaller sizes there are two—these set one-over-the-other, each driven by heavy-duty eccentrics from one heavy eccentric shaft, resulting in extremely smooth running qualities—this is "standard" equipment at regular list prices on sizes No. 7 and larger.

HE SHOW SHA EXON SAID EIZON,

Regulato Polishing ORS LINON Without 5 With

ETC. CAPACITIES, PRICES, DIMENSIONS,

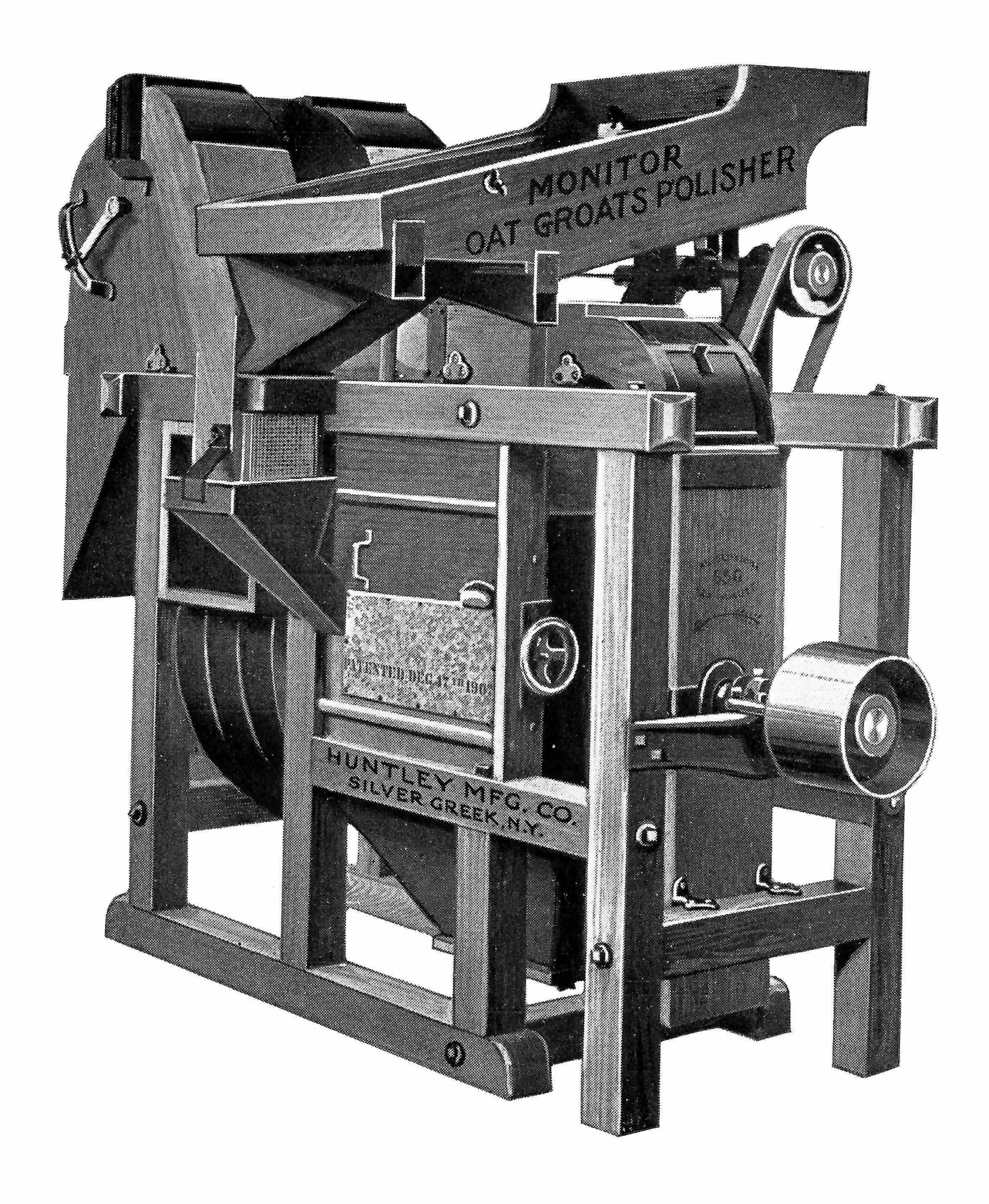
SIZE NO.			2	60	4	ìO	9		000
Extreme height with shoe and feed hopper.	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	10 10 10 10 10 10 10 10 10 10 10 10 10 1	% % % %	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	"10" "2"	% 2, 2, 2, 5,	% % % 2/ 6/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/	%' 10" 7' 10"
height without shoe		M						2 E291 127	
Extreme length						h			
			*	Y				10.00	
Length on floor.				=	1				
1 2						_			
lon shoe, no									
3 2							7-1		
ē.	- P	15	1 5	14	1 	22111	1		3, 0,
Size of driving pulley	x 550	×	× 25	2000 2000	1:	10 × 0		400	40
ity, bushels per hour.	020	30	1.045	1,500	1700	1000	250	2000	3250
Regular Equipment	3	3							•
*List price, without shoe	\$180	\$210	\$240	\$264	\$312	\$360	\$420	\$480	\$522 522
*List price	202	235	265	294	352	410	470	530	585
Equipped with "MONITOR" Polishing Regulator									
price	198	231			343	396	462		27.7
*List price, with shoe	223	256	283	320	383	446	2.T.C	2/3	037

self-Voir deep uipment of

See price list inside back charge. extra 47) are desired. f-oiling bearings. (illustrated page 'MONITOR'

MEASURE SIDE E H MA 日 〇 日 SIZE

SIZE NO.			N	*	4	O			0
Fan outlet opening, depth	10221		1221/1021/1021/1021		1421 1221 182	151/2 122/2 132/2 209	16½" 14½" 240	17 <u>4</u> " 15 <u>4</u> " 263	1837
	hen order	dering refer to	pages 68,	69, 70.					
		EXT	SCA	EXESS OF THE STATE					
SIZE NO.			2	60	4	Ŋ	9		00
Main, complete	\$5.00 85.00	200 C	\$6.00 \$6.00	\$7.00 4.50	88 80 00 00 00 00 00		\$12.00 6.00	\$14.00 6.50	9.00 2.00 2.00 2.00



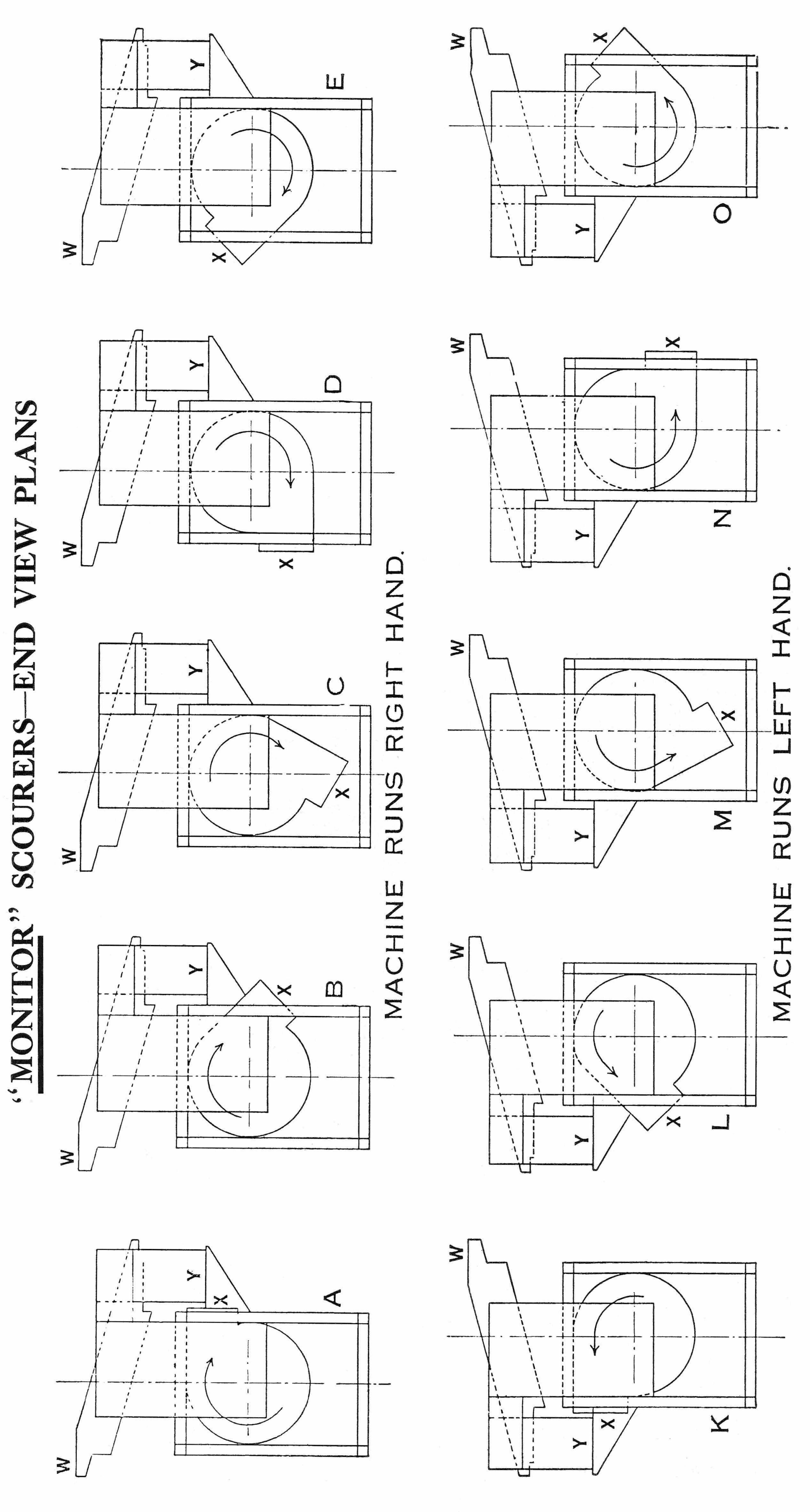
"MONITOR" OAT GROATS POLISHER

INCOMPARABLE performance as an Oat Groats Polisher and Finisher has given this machine great prestige with cereal millers. Thoroughness of polishing work, ease of regulation, light care and power are features, as are, also, our superior system of ventilation for the case and cylinder and two strong, entirely controllable aspirations, which remove all dust and fine meal. These are applied before and after the work of the polishing cylinder. Groats leaving the machine are in a clean, brightly polished condition.

This machine has been used with fine success for polishing Hominy and Grits.

CONSTRUCTION—EQUIPMENT

Shoe, two separations, counterbalanced with counterweight fly wheel on small sizes—a "compound" drive on the large sizes—see page 65—Air separations before and after polishing—see "Aspirations," page 42—Screenings tips overhang at end or side as preferred—see page 64—Ventilation is full-length-of-cylinder system—see page 43—Self-oiling bearings, ring or chain type, see pages 46 and 47—at additional price ball bearings, see page 47—Brush polishing cylinder ventilated type, adjustable. Brushes finest grade tampico, expertly drawn and reinforced—"Monitor" Polishing Regulator applicable—see advantages this outfit, pages 48 and 49—Heavy-service construction detailed on page 41—Polishing case, see "Scouring Cases," pages 44 and 45.



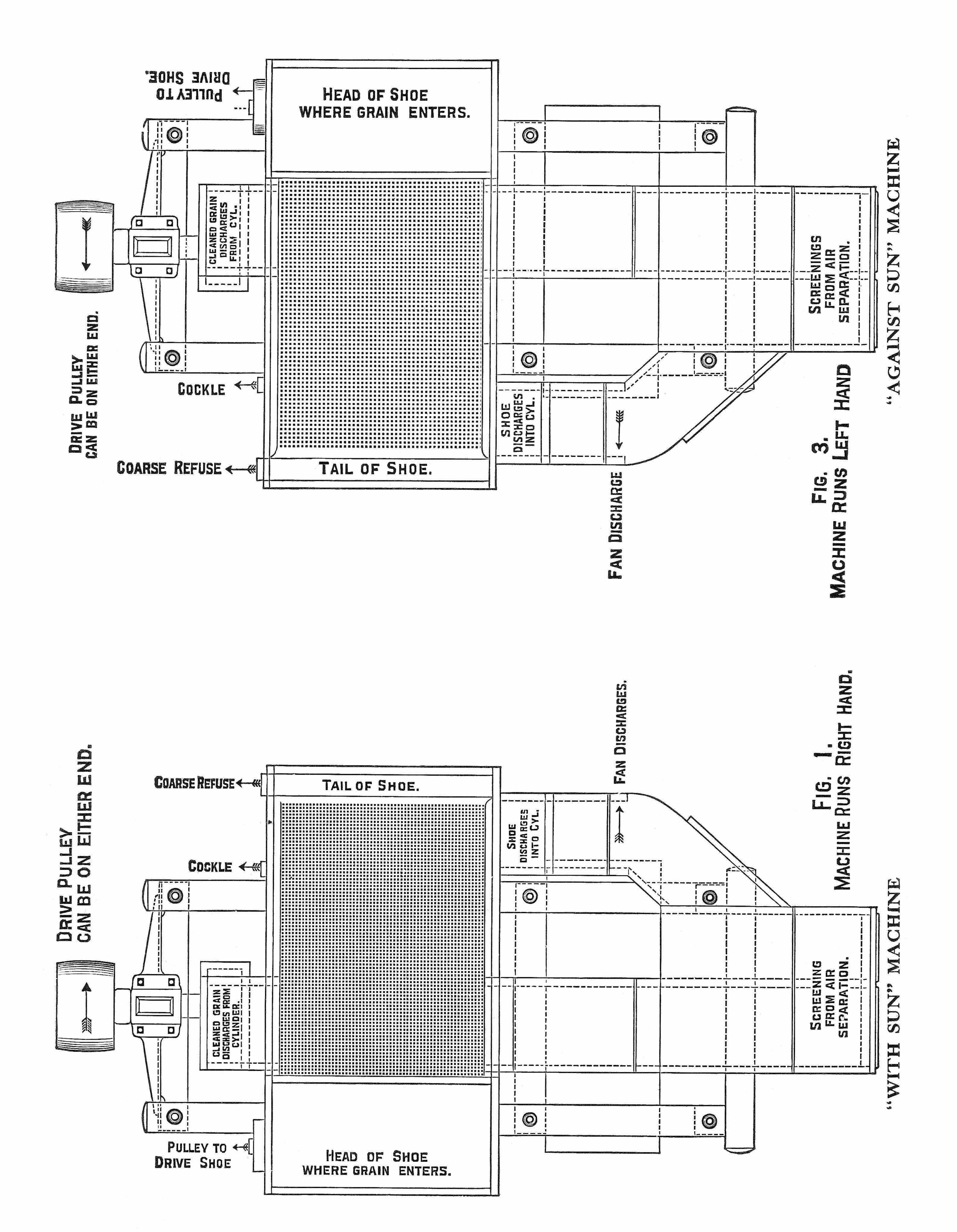
supplie lischarge W ,, fan OD Figs discharges which

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Fig. Feed Feed Dust

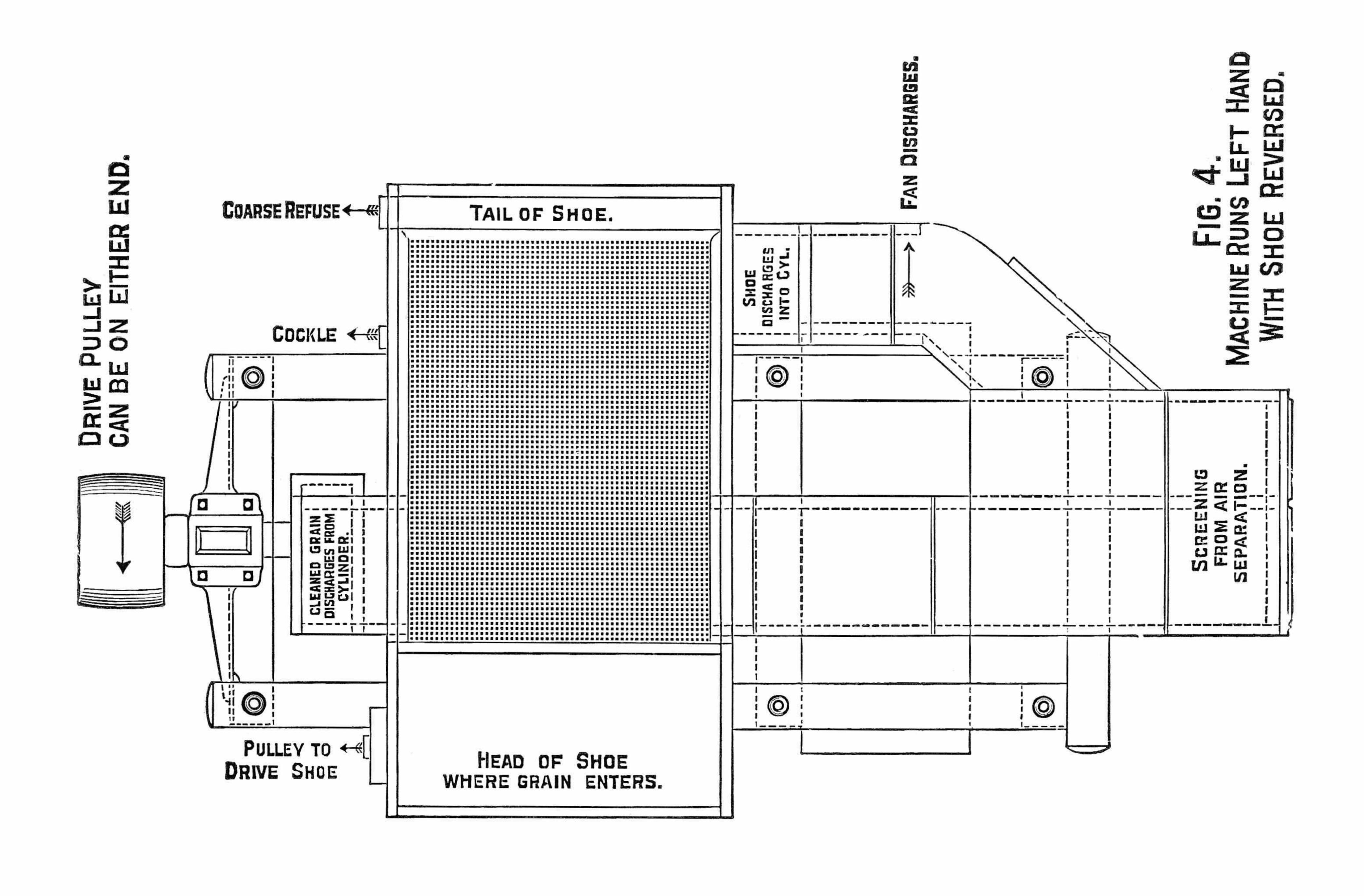
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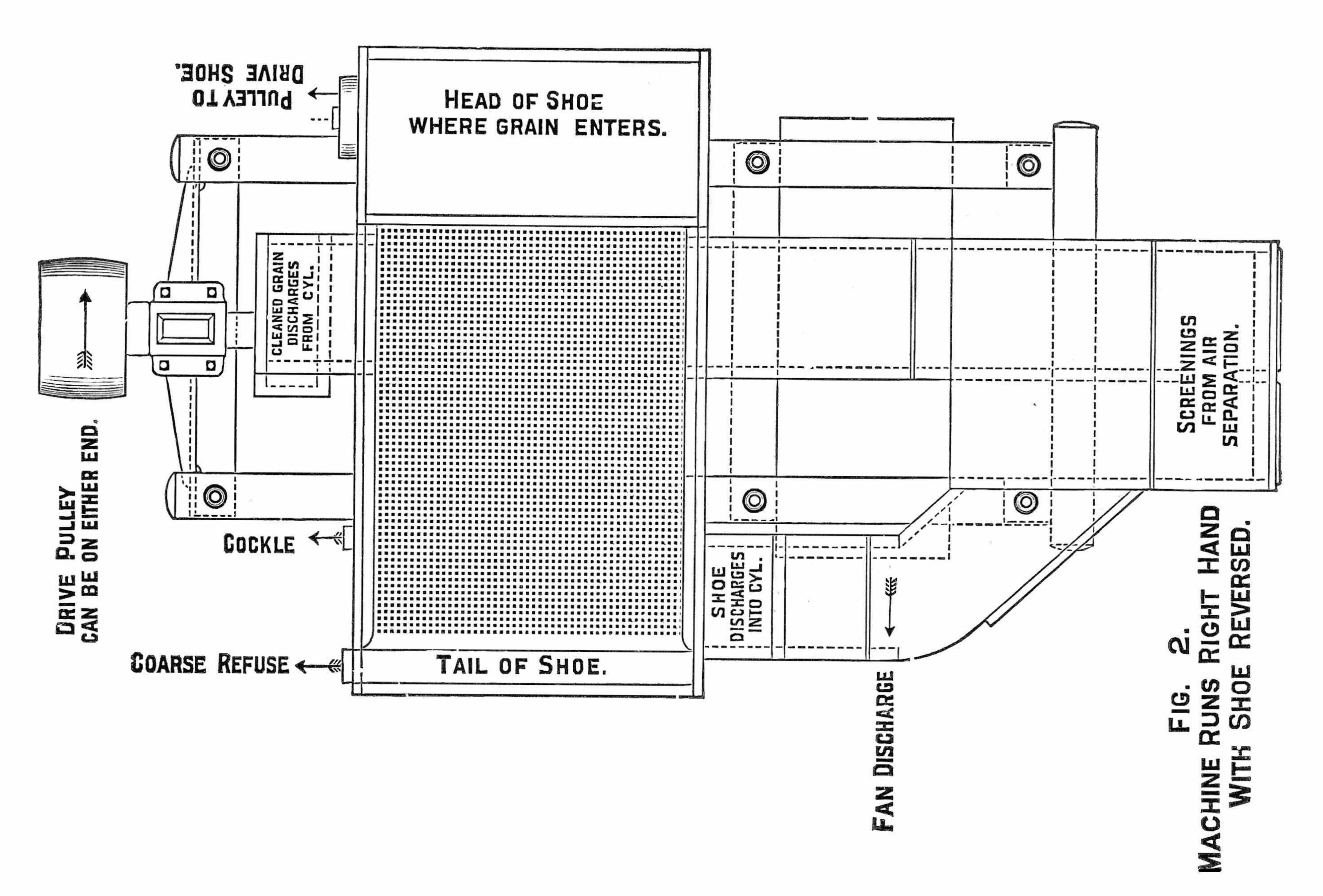
68



TOP VIEW PLANS "MONITOR" SCOURERS

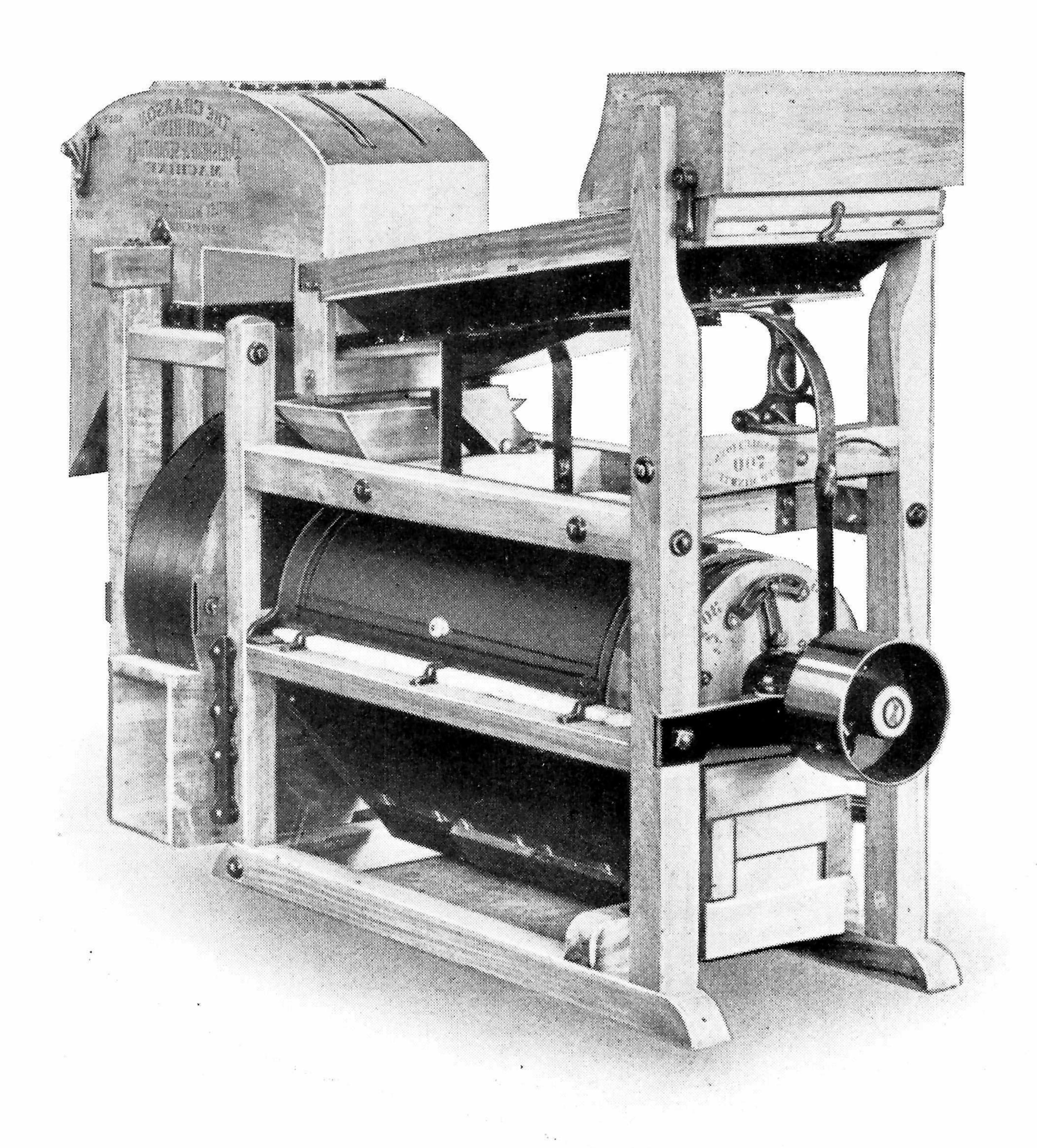
IG. 1 shows right-hand and Fig. 3 left-hand machines, on each the intake to the cylinder is on the down side—always desired with horizontal scourers. We recommend this arrangement in preference to the construction shown on next page.





TOP VIEW PLANS "MONITOR" SCOURERS

IGS. 2 and 4, right- and left-hand machines respectively. With this construction cylinder intake is on the *up sid*—not as desirable as "down side" cylinder feed as shown by Figs. 1 and 3, page 69.



"CRANSON" WHEAT SCOURER AND POLISHER

EW cleaning machines have features sufficiently good to demand their manufacture for a third of a century—the "Cranson" is one of those few. Its long "gun barrel" type of cylinder and case are old in principle, modern in design. Although not recommended for smutty wheat its work on other varieties is of a high order—as a polisher and finisher nothing superior is manufactured. Light powered and easy to operate. Construction, fit and finish are of the high grade standard that characterizes all "Monitor-Built" machines.

CONSTRUCTION—EQUIPMENT

Shoe is end shake—delivers two separations, removing coarse trash, cockle, seeds, etc.—Feed hopper at head of shoe has adjustable gate—Two air separations, controlled by valves, one before and after the scouring and polishing operation—A field of magnets removes all pieces of iron and steel previous to feeding into cylinder—Scouring cylinder is our "extra long" design—scouring surface consists of chilled tooth plates, adjustable. Every cylinder carefully balanced to static and running balance—Scouring case is heavy design, ventilated; cast on chills to insure the maximum of durability—Bearings are substantial construction—exposed mounting—General construction is high grade in every detail.

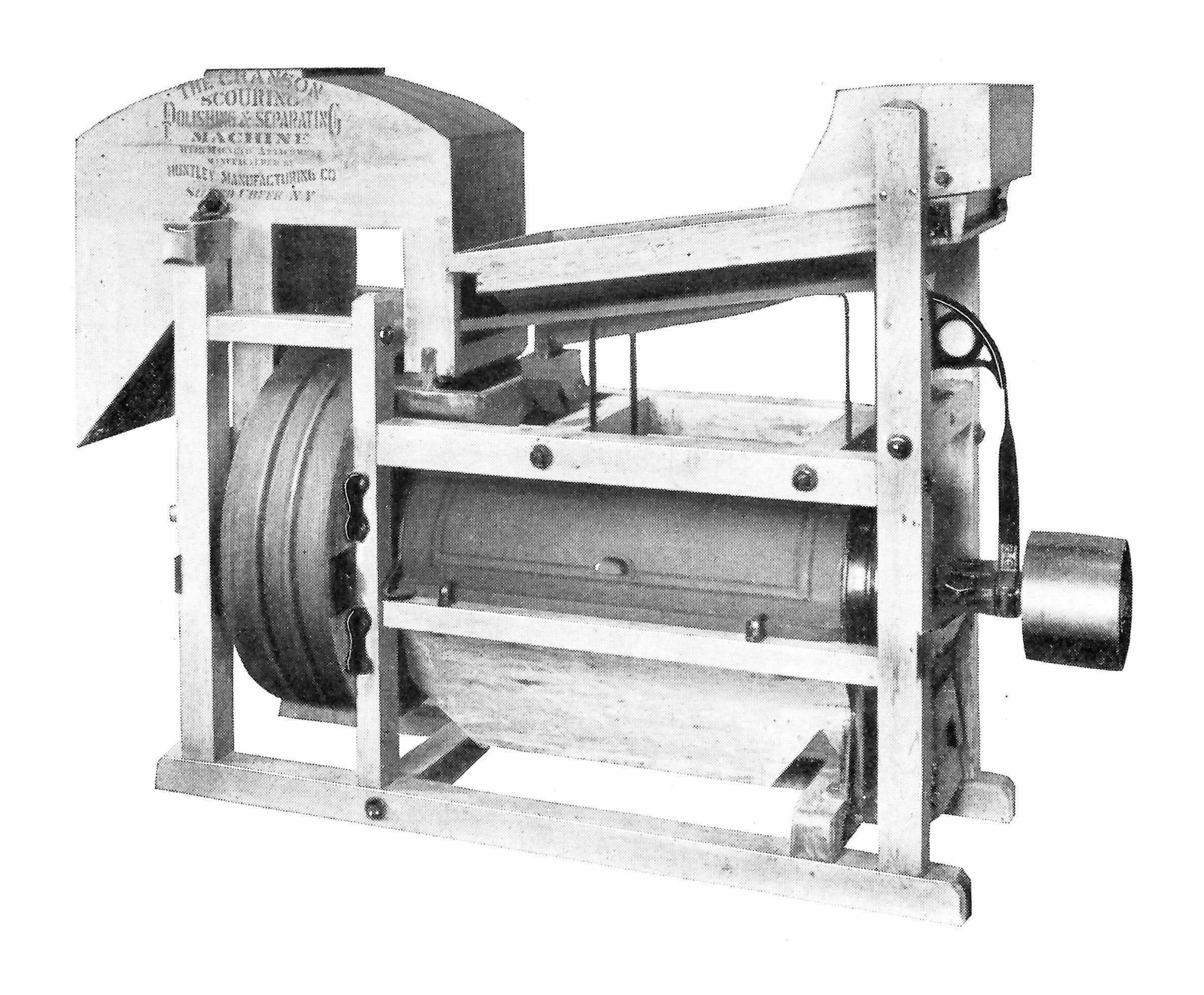
NOTE—The "Cranson" is made in either "right" or "left" hand construction—hand determined by standing at discharge end—cut shows right-hand machine. Fan discharge can be from either side as preferred. Drive pulley is shown at discharge end—this can be at opposite end, where drive is from below.

LORER LER

SCOURER SCOURER

SON SON

SIZE NO.		6 3	SS	4	10			00
της	4, 20	150	30	2,0	10	111/2		1 m
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	1, 61,	*8 *1	\$ 68 68	2 N	95	*8°) %	36.
dere grain enters feed hopper		72	2,0	20		2/11/2	2/11/	
nter of drive pulley (cylinder shaft)		19				15°	2. <u>1</u> 2.	2 61/
1g pulley	8"X5"	8"x5"	10"x6"	10"x6"	12"x6"	"LX"91	18"X7"	20"x8"
M. of cylinder shaft.	200	200	000	650	009	200	200	450
shels per hour		OX	000	45	9	08	001	150
shipping weight, pounds	009	2002	0001	0087	000	2000	2400	0086
List price, F. O. B. Silver Creek	0918		008	2778	\$250	\$300	\$320	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
SIZE OF FAN OUT			MEASCUR					
SIZE NO.		63	SS	7	20			00
opening, depth	811	0.3 % %		- Net O	101	\(\) \(\	100 m	
opening, width	021		\$ 00	%	* 6			
ian out	20%	200	84"	8 4 %		136"	136/	204"
LIST PRICE	EXID EXID	SCRE SCRE						
SIZE NO.		63	60		10	S		8
Main, complete	\$4.00°	00.	100		86.00	00. 759 	82.00	\$8.20
	ここの	2	つつこの	30°		4.5	子 元	2



"CRANSON"

BUCKWHEAT SCOURER AND POLISHER

In use in most buckwheat mills—the only machine that will deliver thorough, perfect scouring and polishing on buckwheat harvested in either wet or dry seasons. This feature in itself has made the "Cranson" a favorite with buckwheat millers everywhere. Simple to operate and takes small power. A consistent and dependable machine, the "Cranson" scours and polishes to perfection without breakage or injury to the grain treated. In preparing buckwheat for milling this machine has never failed to prove a valuable aid to cleaning.

CONSTRUCTION—EQUIPMENT

Feed hopper is provided with adjustable gate——Shoe gives two screen separations—removing all trash larger, seeds and dirt smaller, than buckwheat——Two air separations; controlled by adjustable valves, one before and after work of cylinder——A field of magnets separate all pieces of steel and iron from the grain before it reaches cylinder——Scouring and polishing cylinder has our exclusive design of chilled tooth, adjustable plates. Each cylinder painstakingly balanced to running and static balance——Heavy construction, ventilated type of chilled surface scouring case having splendid wearing qualities——Bearings are substantial construction and are mounted full-exposed style——Workmanship, fit and finish are of a surpassingly fine character.

NOTE—These machines are built "right hand" or "left hand" as ordered. "Hand" is determined by standing at discharge end. Machine illustrated above is "right-hand" construction. Fan can be built to discharge as shown—or at opposite side. Drive pulley is shown at discharge end—regular. This can be placed on shaft at opposite end where drive is from below.

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